# Panasonic®

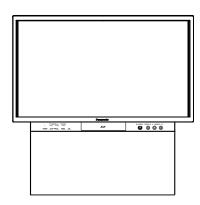
## High Definition Projection Television Operating Instructions

Televisor de Proyección de Alta Definición Instrucciones de Operación









**PT-47WXD64** 

<sup>\*</sup>The presence of the DTV certification mark indicates that this product will successfully receive digital television transmissions that conform to any and all of the video formats described in the ATSC Digital Television Standard.



TO QUALIFIED SERVICE PERSONNEL.

#### WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK, NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING

The lightning flash with arrow head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.



The Class II insulation symbol (square within a square) indicates that this product has been evaluated and tested to comply with Class II insulation requirements.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. DO NOT PLACE ANY OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ON THIS APPARATUS.

## **IMPORTANT SAFETY INSTRUCTIONS**

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

## **Important Information**

FCC CAUTION: ANY CHANGES OR MODIFICATIONS TO THIS PTV RECEIVER NOT EXPRESSLY

APPROVED BY MATSUSHITA ELECTRIC CORPORATION OF AMERICA COULD CAUSE HARMFUL INTERFERENCE, WHICH WOULD VOID THE USER'S AUTHORITY TO

**OPERATE THIS EQUIPMENT.** 

WARNING: AS WITH ANY SMALL OBJECT, SD CARDS CAN BE SWALLOWED BY YOUNG CHILDREN. DO NOT ALLOW CHILDREN TO HANDLE THE SD CARD.

THIS PRODUCT UTILIZES CATHODE RAY TUBES (CRT) AND OTHER **ENVIRONMENTAL NOTICE:** 

COMPONENTS THAT CONTAIN LEAD. DISPOSAL OF THESE MATERIALS MAY BE REGULATED IN YOUR COMMUNITY DUE TO ENVIRONMENTAL CONSIDERATIONS. FOR DISPOSAL OR RECYCLING INFORMATION PLEASE CONTACT YOUR LOCAL AUTHORITIES, OR THE ELECTRONICS

INDUSTRIES ALLIANCE: <http://www.eiae.org.>



HDMI, the HDMI logo and High Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



: SD Logo is a trademark.

**Cable**CARD<sup>™</sup> is a trademark of Cable Television Laboratories, Inc.



Manufactured under license from BBE Sound, Inc.

Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc. BBE High Definition Sound restores clarity and presence for better speech

intelligibility and musical realism.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patents Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 6,381,747; and 6,516,132.

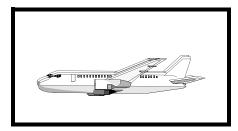
Read these instructions completely before operating television. Contents are subject to change without notice or obligation.

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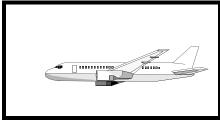
#### Important Information (cont.)

#### **Information Regarding Convergence**

In the projection television, the image is formed by projecting 3 different color images (red, green and blue) onto the projection screen. Convergence refers to the alignment of red, green and blue images on the projection screen. When these images are properly aligned (converged), you see a sharp and vibrant color image. Sometimes, the three images may require alignment. This is due to the effect of earth's magnetic field on the projection tubes. Normally, adjustment is not necessary after the initial alignment at the center of the screen. It is possible to correct the color fringing on other areas of the screen by using the buttons on the remote control and by following the on-screen instructions in the set-up menu. Please converge the images before using the television for the first time. The following diagram shows examples of a misaligned image and a properly aligned image. Please refer to pages 28 and 29 for detailed procedure on how to adjust convergence.



Misconverged image



Properly aligned image

#### Notes:

 Make sure that the set is on for at least 20 minutes before adjusting convergence as described on pages 28 and 29.

## Important Information Regarding The Use Of Video Games, Computers, Or Other Fixed Image Displays.

WARNING: The marking or retained image on the picture tube resulting from viewing fixed image is not an operating defect and as such is not covered by Warranty.

The projection television is designed to display constantly moving images on the screen. Continuous viewing of stationary images such as letterbox pictures on standard screen TVs (with top/bottom bars), non-expanded standard (4:3) pictures on wide screen TVs (with side bars shown on each side of an image), stock market report bars (ticker running at the bottom of the screen), video game patterns, fixed scoreboards, bright station logos, on-line (Internet) or repetitive computer style patterns should be limited.

The extended use of fixed image program material can cause permanent picture tube damage, shown as a "shadow image" viewable on normal programs. This type of irreversible picture tube deterioration can be limited by performing the following steps:

- Limit the display of fixed image program material to no more than 15% of total viewing time per week.
- Turn the power off when not in use.

#### **FCC INFORMATION**

This equipment has been tested and found to comply with the limit for a Class B Digital Device in accordance with the specifications in Part 15 of the FCC Rules. The limits are designed to provide reasonable protection against radio and television interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications, However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception (which you can determine by turning the equipment off and on), try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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**Note:** The warranty and service center information is located in the back of this manual.

#### **Congratulations**

Your new High Definition Projection Television (PTV) features state-of-the-art technology for high quality picture and sound with complete audio/video connections for your home theater system. Your PTV is designed to give you many years of enjoyment. It was thoroughly tested and tuned at the factory for best performance.

#### **Customer Record**

The model and serial number of this product are located on the back of the TV. You should note the model and serial number in the space provided and retain as a permanent record of your purchase. This will aid in identification in the event of theft or loss. Product registration for U.S. customers is available at: www.prodreg.com/panasonic.

| Model<br>Number |  |
|-----------------|--|
| Serial          |  |
| Number          |  |

#### **Care and Cleaning**

#### **Projection Screen (Turn PTV Off)**

The projection screen is a high precision lens system which has a protective screen. The protective screen is fully washable with the following precautions:

- Use a mild soap solution or window cleaner and a clean cloth.
- DO NOT USE ABRASIVE CLEANERS.
- Do not use laundry detergent or automatic dishwasher soap.
- Do not use alcohol, ammonia, or petroleum based products.
- Avoid excessive moisture and wipe dry.
- Prevent solution from running into the receiver below.
- · Avoid bumping or scraping the screen.

**Warning:** Do not spray any type of cleaning fluid directly on the screen.

#### **Cabinet and Remote Control**

- For cabinets and remote control, use a soft cloth dampened with water or a mild detergent solution. Avoid excessive moisture and wipe dry.
- Do not use benzene, thinner or other petroleum based products.

#### **Specifications**

Specifications are subject to change without notice or obligation.

| Power Source<br>PT-47WXD64 (4.1A)                       | 120V AC, 60Hz                    |  |
|---|----------------------------------|--|
| Channel Capability ATSC/NTSC                            | VHF/UHF- 2-69<br>CATV - 1-135    |  |
| HDMI Input jack   | Type A                           |  |
| Digital Audio Out jack                                  | PCM / Dolby* Digital Fiber Optic |  |
| Component Inputs (Y / P <sub>B</sub> / P <sub>R</sub> ) | 75 Ohm, Phono Jack Type          |  |
| Video Input Jacks                                       | 1Vp-p, 75 Ohm, Phono Jack Type   |  |
| Audio Input Jacks                                       | 500mV RMS 47K Ohm                |  |
| Video out jack  | 1Vp-p, 75 Ohm, Phono Jack Type   |  |
| Audio Output Jacks                                      | 500mV RMS 4.7K Ohm               |  |
| S-Video Input Jacks                                     | S-Video (Y-C) Connector          |  |

#### **Feature Chart**

| MODEL                           | PT-47WXD64     |
|---------------------------------|----------------|
| FEATURES                        |                |
| ATSC DIGITAL TUNER              | •              |
| PHOTO VIEWER™                   | •              |
| CableCARD™ INTERFACE            | •              |
| 2 TUNER PIP/SPLIT               | •              |
| 2 RF                            | •              |
| ZOOM ADJUST (SIZE AND POSITION) | •              |
| PROTECTIVE SCREEN               | •              |
| CLOSED CAPTIONING               | •              |
| V-CHIP CAPABILITY               | •              |
| DIGITAL SCAN RATE               | 1080i,<br>540p |
| NTSC LINE-DOUBLER               | 540p           |
| VIDEO NORM                      | •              |
| AUDIO NORM                      | •              |
| STEREO                          | •              |
| AI SOUND                        | •              |
| BASS/BALANCE/TREBLE             | •              |
| SURROUND                        | •              |
| BBE                             | •              |
| HDMI/HDCP INPUT                 | •              |
| A/V IN (REAR/FRONT)             | 4 (3/1)        |
| DIGITAL AUDIO OUT               | •              |
| S-VHS INPUTS                    | •              |
| COMPONENT INPUTS                | •              |

<sup>\*</sup>Manufactured under license from Dolby Laboratories.

<sup>&</sup>quot;Dolby" and the double-D symbols are trademarks of Dolby Laboratories.

#### Installation

#### **Television Location**

This unit can be used as part of an entertainment center. Consult your dealer for available options.

- Avoid excessive sunlight or bright lights, including reflections.
- Keep away from excessive heat or moisture. Inadequate ventilation may cause internal component failure.
- Fluorescent lighting may reduce remote control transmitting range.
- Keep away from magnetic equipment, including motors, fans and external speakers.

#### **Component Connection Cables**

Shielded audio and video cables should be used between components. For best results:

- · Use 75-ohm coaxial shielded cables.
- Use appropriate input and output connectors, that match your component connectors.
- Avoid long cables to minimize interference.

#### **AC Power Supply Cord**

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT. DO NOT USE A PLUG WITH A RECEPTACLE OR OTHER



OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

PROTECT POWER CORDS FROM BEING WALKED ON, ROLLED OVER, CRIMPED, BENT, OR PINCHED, PARTICULARLY AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPARATUS.

#### **Cable / Antenna Connection**

For proper reception of analog or digital cable channels, a cable service connection is required.

#### **Cable Connection**

Connect the cable supplied by your local cable company to ANTENNA (A) connection on back of television. Select Cable mode and ANTENNA (A) in SET UP menu under Program CH (Program Channels).

#### Incoming Cable from Cable Company



75 Ohm ANT A

#### **Antenna Connection**

- For proper reception of digital and analog VHF/ UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended.
- Connect home antenna to either ANT (A) or ANT (B) connection on back of the television. Select Antenna mode for ANTENNA (A) or (B) in Input Setup under Program CH in Setup menu.

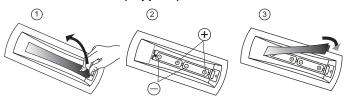
Incoming Cable from Home Antenna



Note: Cable Mode is preset at the factory. Antenna users must change to ANTENNA Mode for ANTENNA (A) in the Set Up menu. If you have both Cable and Antenna, the Cable must be connected to ANT (A).

#### **Remote Control Battery Installation**

Use two AA batteries (supplied):



- 1. Remove battery cover by pushing in on the catch while lifting the cover up.
- 2. Install batteries by matching (+) and (-) polarity signs in the compartment.
- 3. Re-insert the cover and press down the cover until it snaps shut.

**Note:** Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control.

#### **Precautions**

- · Replace batteries in pairs.
- Do not mix battery types (example: zinc carbon with alkaline).
- Do not recharge, heat, short circuit, disassemble, or burn batteries.
- Battery replacement is necessary when the remote control acts sporadically or stops operating the selected device

#### First Time Setup

For your convenience, First Time Set up menu will be displayed on screen when the set is turned on for the first time. If needed, follow the menus and procedures displayed on-screen for setting up the features.

#### **Input Setup**

To select the configuration of RF input depending on the signal source.

Note: No video will be displayed in this setup mode.

#### **Procedure**

- Press VOL ► to select Cable only, Cable/Antenna or Antenna only.
- Press the **OK** button to underline your selection.



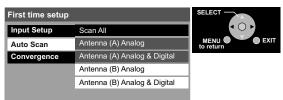
 When the next screen is displayed, press **OK** button to start the Auto Scan. All available channels with a signal will be programmed into memory.

#### **Auto Scan**

This feature allows you to selectively auto scan channels. You can Scan All, Analog only channels or Analog & Digital channels.

#### **Procedure**

Press OK button to start Auto Scan.



 After Auto Scan is completed the PTV tunes to the first channel found during auto scan.

#### Notes:

- If the EXIT button is pressed at anytime during auto scan, the First Time Setup menu will be cancelled and the PTV will tune to analog channel 2 on ANTENNA (A).
- If a CableCARD is present during the First Time Setup and Antenna (A) is set to cable, Antenna (A) will not be scanned due to the CableCARD providing the channel map.

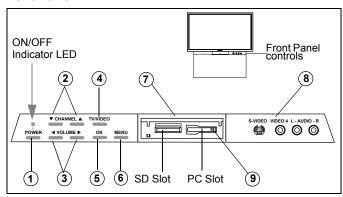
#### Convergence

This menu lets you set the green CRT alignment and the center convergence. Follow the instructions on-screen to perform convergence. After convergence is performed, press **EXIT** to return to normal viewing.



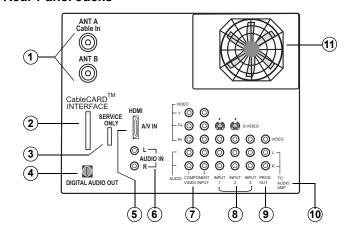
## Front and Rear View of the High Definition Projection Television

#### **Front Panel**



| Feature                 | Description   |  |
|-------------------------|---|--|
|                         | Toggles power OFF/ON  |  |
| 1 POWER                 | Note: In case of front panel lock-up or remote control hang-up, press and hold POWER button for more than 5 seconds until the unit resets itself. |  |
| ② ▼CH and CH▲           | Tunes to lower or higher channels, navigate up/down in menus.   |  |
| ③ <b>◀</b> VOL and VOL▶ | Decrease or increase volume, navigate left/right in menu, adjust selected feature in menu.  |  |
| 4 TV/VIDEO              | Changes Input source  |  |
| (5) ОК                  | Completes channel specification, press to accepts menu and sub-menu selection.  |  |
| 6 MENU                  | Display or remove menu or return one step backward in menus.  |  |
| 7 Photo Viewer™         | Lets you display JPEG images recorded on memory cards by a digital camera. The Photo Viewer™ is located behind the door marked SD.                |  |
| 8 Input 4               | Analog inputs for external devices  |  |
| 9 Eject button          | Push this button to eject PC card.  |  |

#### **Rear Panel Jacks**



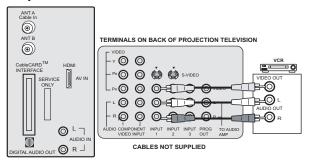
| Item # | Description  |  |
|--------|--|--|
| 1      | Antenna Inputs ANT A - Connect Cable Antenna or Terrestrial Antenna to this input to receive Digital channels. ANT B - If you have both Cable antenna and Terrestrial antenna, connect the Terrestrial antenna to ANT B. |  |
| 2      | CableCARD™ INTERFACE Insert the CableCARD module from the Cable company to receive premium digital service.  |  |
| 3      | SERVICE ONLY Card slot used by a certified service technician only. Do not insert any memory card into this slot.  |  |
| 4      | DIGITAL AUDIO OUT 5.1 Dolby Digital surround sound optical output.   |  |
| 5      | HDMI (High Definition Multimedia Interface) Input that accepts uncompressed digital signal and multi channel digital audio signal.   |  |
| 6      | AUDIO IN Use these audio inputs when DVI devices are connected to HDMI input using the DVI to HDMI adaptor.  |  |
| 7      | COMPONENT VIDEO (Y-P <sub>B</sub> -P <sub>R</sub> ) INPUTS  Use these jacks for connecting devices such as a DVD player or Set Top Box.  |  |
| 8      | INPUTS 1, 2 and 3 Composite inputs for connecting VCR and other devices.   |  |
| 9      | PROG OUT Terminals that output fixed audio and NTSC composite video.   |  |
| 10     | TO AUDIO AMP Analog Audio Output to connect to an analog amplifier   |  |
| 11)    | Cooling fan  |  |

#### **Optional Equipment Connections**

**Note:** The remote control must be programmed with supplied codes to operate the optional equipment.

#### VCR Connection

Follow this diagram when connecting your television to a VCR only.



#### **Procedure**

- Press the TV/VIDEO button on the remote control to select the video input (VIDEO 1, VIDEO 2, etc.) connected to your VCR.
- · Begin the video.

#### **CableCARD™** Connection

This module allows you to tune digital and high definition cable channels through the cable antenna. Consult your Cable company on the availability of this module.

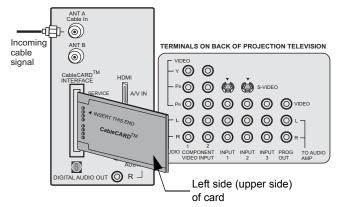
Note: A Digital Cable Subscription is required. (refer to pg. 29)

#### **Procedure**

- Connect the Cable antenna to ANT A/Cable In input on the back of the PTV.
- Insert the CableCARD module (upper side facing left) into the CableCARD slot on the back of the PTV.

#### Notes:

- Left side is the upper side of the DCM cards.
- Do not insert a PCMCIA card into the CableCARD slot.
- Choose Cable mode for Antenna (A) in Input Setup.
- · Follow the instructions on screen.



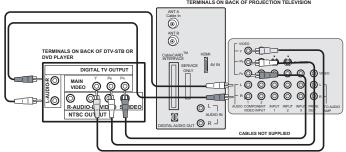
Note: If you experience keyboard or remote control function hang-up when using CableCARD module, unplug the PTV and plug it back on and try the controls again. If this condition still exists, please call Panasonic Customer Call Center for further instructions.

## Digital TV - Set-Top Box (DTV-STB) or DVD Connection

This television is capable of receiving 1080i, 480p, and 480i DTV signals when connected to a DTV tuner set-top-box (STB) or a DVD player. In order to view DTV programming, the STB must be connected to the component video inputs (Y,PB,PR) of the PTV. A DTV signal must be available in your area. Select the output of the STB to either 1080i or 480p.

This television also utilizes a progressive scan doubler, which de-interlaces the NTSC signal and progressively scans the image. This allows you to sit close to the TV and not see the thin black horizontal lines (venetian blind effect) associated with interlaced TV pictures.

Use this diagram to connect the DTV-STB or DVD player to the back of your projection television.

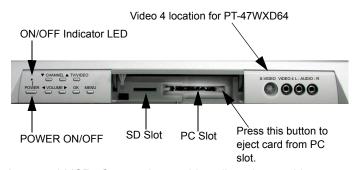


**Note:** There are two set of three video iacks, Y, P<sub>B</sub>, and P<sub>R</sub>. Separate component color inputs provide luminance and color separation. Use the L (left) and R (right) audio inputs.

#### **Front Control Panel**

The front control panel can be used to access menus and switch video mode when the remote control is not available.

The ON/OFF indicator LED (red) will be lit when set is on.



A second VCR, Camcorder, a video disc player, video game equipment or DSS equipment can also be connected to the video inputs. See the optional equipment manual for details.

#### **Procedure**

- Connect equipment to front Audio/Video input jacks.
- Press TV/VIDEO button to select VIDEO 4 input mode.
- Operate optional equipment as instructed in equipment manual.

## **HDMI** (High Definition Multimedia Interface) input connection

#### About HDMI

HDMI is the first all digital consumer electronics A/V interface that supports several uncompressed standard, enhanced and high definition video format as well as existing multi-channel audio format. One jack supports both video and audio information. The HDMI/HDCP<sup>1</sup> input can be connected to an EIA/CEA 861<sup>2</sup> compliant consumer electronic device, such as a set top box or DVD player equipped with a HDMI or DVI output connection. By inputting a High-bandwidth Digital Content Protection (HDCP) high definition picture source to the HDMI terminal of this PTV, high definition pictures can be displayed on the screen in their digital form. The HDMI input terminal is not intended to be used with personal computers. This PTV is compatible with 1080i, 480p and 480i formats. Select the output of the connecting to device to match that of the PTV.

#### Notes:

- HDMI/HDCP = High Definition Multimedia Interface / High-Bandwidth Digital Copy Protection.
- EIA/CEA-861 Profiles compliance covers profiles for transmission of uncompressed digital video including high bandwidth digital content protection.

#### **Compatible formats**

This PTV is compatible with following formats. Please set the connecting device to following format.

#### Video signal

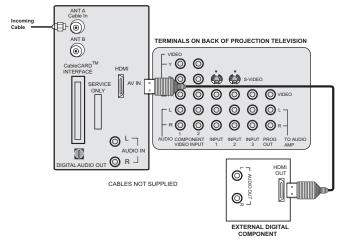
| Format      | No of dots               | Vertical scanning frequency (Hz) |
|-------------|--------------------------|----------------------------------|
| 1080i       | 1920 x 1080i             | 59.94 / 60                       |
| 540p (480p) | 720 x 480p<br>640 x 480p | 59.94 / 60<br>59.94 / 60         |
| 540p (480i) | 720 x 480i               | 59.94 / 60                       |

#### Audio signal

When digital audio is included in the HDMI connection, the compatible sampling frequencies are 48 KHz / 44.1Khz / 32 Khz.

#### **Connection diagram**

Follow the diagram below to connect the PTV to a set top box or a DVD player.



\* The connector on the PTV is HDMI Type A connector.

#### **Procedure**

- Connect the HDMI output from the set top box or a DVD player to the HDMI input on the back of the PTV.
- Press TV/VIDEO button on the remote control to select HDMI input. The connector on the PTV is HDMI Type A connector.
- If the external device has DVI output only, use a DVI to HDMI adaptor cable\*<sup>3</sup> to connect to the HDMI jack on the PTV. Also, connect the Audio Out signal from the external device (set top box or DVD player) to the Audio In\*<sup>4</sup> jacks below the HDMI input.
- If you cannot display the picture because of your Digital Set Top Box does not have a Digital Out terminal setting, use the Component Video Input (or the S-Video Input or Video Input). In this case, the picture will be displayed as an analog signal.

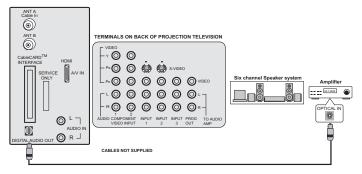
- \*3. HDMI-DVI conversion cable (TY-SCH03DH) available on Panasonic Website: www.panasonic.com.
- \*4. Please refer to pages 22 and 23 for Audio setting detail.

#### **Digital Audio Out Connection**

Use the diagram below to connect the Digital Audio Output of your HDTV Projection Television to a Dolby Digital decoder.

#### **Digital Audio Out**

Dolby Digital 5.1 channel surround sound delivers digital-quality sound. Dolby Digital provides five discrete full-bandwidth channels for front left, front right, center, surround left and surround right, plus a LFE (Low Frequency Effect) subwoofer channel. For a full Home Theater sound experience, an external Dolby Digital decoder and a multichannel amplifier must be connected to the Digital Audio Out jack on the PTV.



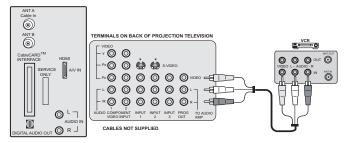
#### **Procedure**

 Connect the Digital Audio cable from the Digital Audio Out jack on the PTV to the Digital Audio In connection on the Dolby Digital decoder.

**Note:** When ATSC channel is selected, the output from the Digital Audio Out jack will be Dolby Digital. But, if NTSC channel is selected, the output will be PCM.

#### **Program Out Connection (PROG OUT)**

You can connect a VCR to the PROG OUT terminal to record the program you are viewing on-screen. An external monitor can also be connected to the PROG OUT and TO AUDIO AMP terminals. Connect the VCR as shown below.



#### **Procedure**

- Connect the VCR to PROG OUT and TO AUDIO AMP terminals
- PROG OUT terminal display is the same as on-screen display.
- See the VCR instruction manual for further instructions for recording the program.

#### Notes:

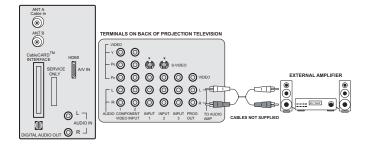
This TV contains Video and Audio Outputs for the purpose of recording television programming to VCR. Due to license restrictions, if a device (STB, DVD, etc.) is connected to the HDMI input of the TV, no video or audio output is allowed.

- Program Out signal may not be available when component input is selected for main picture.
- Program Out signal is available when receiving digital channel. However, all digital formats are down converted to composite NTSC video.
- When receiving digital or analog channels signals and the analog or digital CC is ON, Program Out connector will output open caption text in the NTSC video picture. If CC is OFF, only analog CC closed caption code is passed out the Program Out connector.
- Certain program content output from the Program Out connector may have the Macrovision signal modification applied to its signal, preventing VCRs from recording this video signal.

#### **Amplifier Connection (Analog)**

To listen the audio through a separate stereo system, connect an external audio amplifier TO AUDIO AMP outputs on back of television.

**Note:** TO AUDIO AMP terminals cannot be connected directly to external speakers.



#### **Audio Adjustments**

- · Select Speakers Off in Audio Other Adjust menu.
- Set amplifier volume to the preferred level.

#### **PIP Operation**

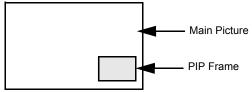
This television includes a two-tuner Picture In Picture (PIP) feature. This allows you to watch two (2) live broadcasts at the same time with or without an external video source such as a VCR, cable box, etc.

**Note:** Only the Analog programming from Antenna (A) and video inputs signal can be viewed in the PIP/SPLIT frame.

#### **Procedure**

- · Connect incoming cable to ANT (A) input on back of TV.
  - PIP
    Press to display PIP frame.
- Select channels for the PIP frame by pressing
   PIP CH
   DYD/VCR CH
- Select channels for the Main picture by pressing

  A or ch or use the remote control numeric keypad.
- Press \_\_\_\_\_ to switch the PIP and MAIN PICTURE source.
- Press Recay to view picture source status.
- Press to cancel PIP frame.



**Note:** Audio is from Main Picture only.

#### **Split Operation**

This feature lets you watch two different channels side by side with or without an external video source.

#### **Procedure**

- Press to display Split screen.
- PIP CH DVD/VCR CH

   Select channels for the Split by pressing
- Select channels for the Main picture by pressing
  - or use the remote control numeric keypad.
- Press \_\_\_\_\_ to switch the SPLIT SCREEN and MAIN
  PICTURE source
- PICTURE source.

  To view picture source status.
- SPLIT

  Press \_\_\_\_\_ to cancel Split screen.

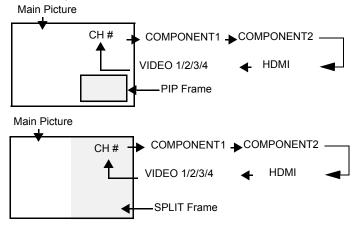
**Note:** PIP or SPLIT frame cannot display digital channel signal. You can display digital channel as the Main picture and analog

channel in PIP/SPLIT frame or analog channels in both Main and PIP/SPLIT frame. Swap is possible when both Main picture and PIP/SPLIT picture are analog channels or video input sources

#### **PIP and Split Operational Buttons**

#### **TV/VIDEO Button**

Press when PIP or Split frame is displayed to select desired input mode.



#### Search Button (PIP and Split)

This feature lets you scan through all available analog channels.

#### **Procedure**

Press or to display PIP or Split frame.

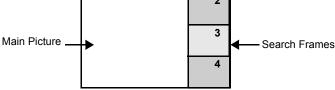
SEARCH OPEN/CLOSE

Press \_\_\_\_\_ to display search frames.

**Note:** When the main picture is ATSC (terrestrial) digital channel, the search feature is unavailable. Search feature is available only for analog channels.



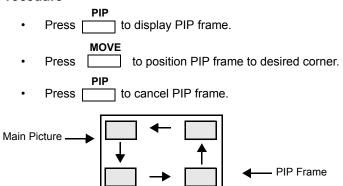
- Press again to stop search feature. PIP or Split frame channel will be the last active search frame.
- Press or to cancel PIP or Split frame
  2



#### Move Button (PIP only)

This feature is used to move PIP frame to one of four corners.

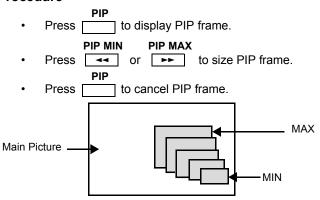
#### **Procedure**



#### **PIP MIN and PIP MAX Buttons**

While PIP frame is displayed, press PIP MIN or PIP MAX button to vary the size of PIP frame.

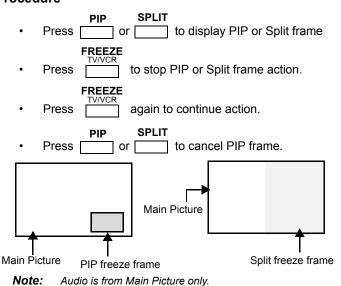
#### **Procedure**



#### Freeze Button (PIP and Split)

This feature is used to stop action in PIP or Split frame.

#### **Procedure**



#### **Main Picture Freeze Feature**

This feature is used to stop action of the Main Picture and display it on a Split or PIP freeze frame.

#### **Procedure**

| • | To stop action for Main picture, press | TV/VCR | while |
|---|--|--------|-------|
|   | PIP or Split frame is not displayed.   |        |       |

 Main Picture freeze will be displayed in a PIP or Split frame, depending on the selection in the Freeze menu located in Picture Other ADJ. section (refer to page 20).

Press \_\_\_\_\_ again to cancel Main Picture freeze frame.

**Note:** While Main Picture freeze frame is displayed, only MOVE button is active for PIP, all other PIP and Split buttons have no effect (see chart).

#### PIP, Split and Freeze Mode Buttons Operational chart

This chart indicates the buttons that are operational with PIP, Split or Main Picture Freeze mode.

| REMOTE<br>BUTTONS | PIP MODE  | SPLIT MODE  | MAIN<br>PICTURE<br>FREEZE<br>MODE |
|-------------------|---|---|-----------------------------------|
| PIP MIN           | Size Smaller  | No Effect   | No Effect                         |
| PIP MAX           | Size Larger   | No Effect   | No Effect                         |
| FREEZE            | Freeze PIP frame  | Freeze Split<br>Frame   | Display or<br>Delete              |
| PIP CH            | Change<br>Channel   | Change<br>Channel   | No Effect                         |
| SEARCH            | Displays<br>Search Frame<br>(not available<br>when Main<br>picture is<br>digital)       | Displays<br>Search frame<br>(not available<br>when Main<br>picture is<br>digital)             | No Effect                         |
| PIP               | Delete PIP<br>Frame   | Displays PIP frame  | No Effect                         |
| SPLIT             | Displays Split<br>Frame   | Delete Split<br>frame   | No Effect                         |
| MOVE              | Move PIP<br>Frame   | No Effect   | Move PIP<br>Frame                 |
| SWAP              | Swap with Main<br>Picture (not<br>available when<br>main picture is<br>digital channel) | Swap with<br>Main Picture<br>(not available<br>when main<br>picture is<br>digital<br>channel) | No Effect                         |

#### Special Features of the High Definition Projection Television

#### **Channel and Program Tuning**

Channel and Program tuning in digital television is different from current conventional television. In DTV, multiple programs can exist within a single 6MHZ channel. These channels behave as sub-channels within a single channel. When tuning to a digital channel, the HDTV Projection Television will also tune to a program. The HDTV Projection Television will indicate the channel and program using the on-screen Channel Banner display.

**Note:** In order to select channels properly, Auto Scan must be performed (refer to page 25).

#### Tuning digital and analog channels

You can tune the digital and analog channels in the following ways:

- □ Direct tuning (0 9 keys) using the numeric keys on the Remote control to directly input the Channel number. If necessary, use the ⊕ button to enter the program number of the digital channel.
- □ Channel Up/Down Tuning (CH ▲ or CH ▼ buttons) Tunes to the next or previous available channel or program. The Channel Up/Down tuning depends upon the surfing mode (see pg. 21) you have set in the Channel menu.
- ☐ Rapid Tuning (**R-TUNE**) Switches between the last two channels or programs.

#### **Direct Tuning Method**

Follow the procedure below to directly enter the channel number using the Remote Control numeric keys.

#### **Procedure**

- Press the numeric keys on the Remote Control to enter the Channel number. Press **OK** button.
- If tuning a digital channel and your channel contains

more than one program, press the  $\bigcirc$  button and enter the program # (1, 2, 3 etc.) using the numeric keys. Press **OK** button. The following is an example of tuning to channel 15-1.

**Direct Tuning Example** 

| Step | Action          | Channel Banner<br>Display |
|------|-----------------|---------------------------|
| 1    | Press 1         | 1                         |
| 2    | Press 5         | 15                        |
| 3    | Press 🖯         | 15-                       |
| 4    | Press 1         | 15-1                      |
| 5    | Press <b>OK</b> | 15-1                      |

The HDTV Projection Television will tune to channel 15-1.

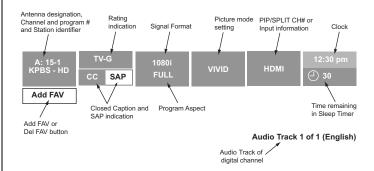
#### **Channel Banner: Minimized**

The minimized Channel Banner will display the antenna input, channel number, and the station identification (if available).



#### **Channel Banner: Maximized**

Press the **RECALL** button to display the maximized channel banner. While the channel banner is displayed, you can add the channel to Favorite channel list or delete the channel from the Favorite channel list.



#### Add Fav / Del Fav feature

This feature lets you add channels to Favorite channel list or delete channels from Favorite channel list.

#### **Procedure**

- Tune the desired the channel to be added or deleted.
- Press the RECALL button to display the Channel Banner.
- Press the **OK** button to execute your choice.

#### **Emergency Alert System (EAS) Forced Tuning**

If a CableCARD™ module is installed, the cable MSO (multiple system owner/operator) may provide an Emergency Alert System message. These messages are intended to alert the general public of important local or national emergency situations. In the event of receipt of one of these messages, the HDTV Projection Television shall immediately tune to the channel as directed by the EAS message. If the channel has blocked using the parental control, the parental blocking has priority over the forced tune.

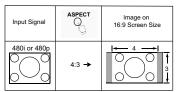
#### Special Remote Buttons

#### **ASPECT Button**

**Customer Options depending on Input Signal Format** 

| INPUT<br>SIGNAL | DISPLAY ON SCREEN     | ASPECT BUTTON OPTIONS                  |
|-----------------|-----------------------|--|
| 1080i           | 16:9 only             | No options                             |
| 480p (16:9)     | Default to 16:9       | 4:3, Full or Zoom (see below)          |
| 480p (4:3)      | Default to FULL mode. | 4:3, Full or Zoom (see below)          |
| 480i            | Default to JUST mode  | 4:3, Full, Just or<br>Zoom (see below) |

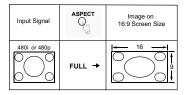
The **ASPECT** button on the remote control lets you choose one of four display modes, depending on the formats of the received signal and your preferences.



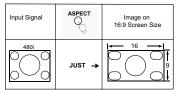
This will display a 4:3 picture at its standard 4:3 size with gray side bars. (Not recommended for viewing 4:3 pictures as it may create a permanent image on screen if displayed for a prolonged period of time.)

| Input Signal | ASPECT | Image on<br>16:9 Screen Size |
|--------------|--------|------------------------------|
| 480i or 480p | ZOOM → | 16                           |

This will expand the 4:3 picture uniformly (width and height) to full screen width and then reposition the picture vertically. (Recommended for letterbox pictures.)



This will show picture at full screen size. (Recommended for anamorphic pictures.)



This will stretch the right and left edges of a 4:3 picture to fill the screen, The center of the screen will have aspect correction applied. The size of the picture will depend on the original signal.

(Recommended for regular TV viewing.)

#### **BBE Button**

Press this button to turn BBE sound feature On or Off.

#### **SAP Button**

Press this button to select the next audio track (if available) when receiving a digital channel.

#### Audio Track 1 of 1 (English)

In analog mode, press this button to cycle through different audio modes. For example:

 If receiving STEREO, SAP and MONO or receiving STEREO and MONO only, pressing SAP button, the audio will toggle as follows:

► STEREO → SAP → MONO —

#### **PROG** button

When tuning digital channel, press the button to enter the minor number in a compound channel number.

#### **MENU** button

Press to display the Main menu or return one step backward in menus.

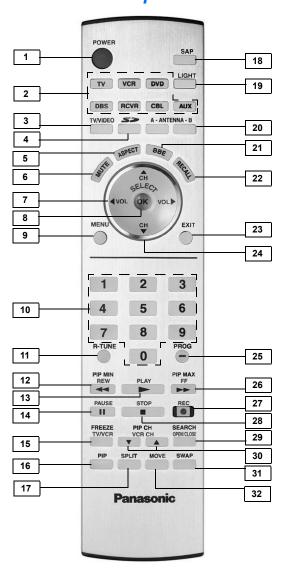
#### **RECALL** button

Press this button to display or remove the channel banner.

#### **R-TUNE Button**

Press to switch to previously viewed channel, Photo Viewer  $^{\mbox{\tiny TM}}$  or inputs.

## **Remote Control Operation**



| BUTTON<br>NUMBER | DESCRIPTION   |  |
|------------------|---|--|
| 1                | Press to turn ON and OFF.  Note: The ON/OFF indicator LED (red) will be lit when set is on.   |  |
| 2                | Press to select remote operation.   |  |
| 3                | Press to select (Component 1or 2), (HDMI),<br>(Video 1, 2, 3 or 4) input mode or TV mode.   |  |
| 4                | Press to access Photo Viewer™.<br>Also press while Photo Viewer™ is displayed to<br>access Photo Viewer™ set up menu.                   |  |
| 5                | Press to select picture size (ratio) to match programming format.  Also used for Photo Viewer™ to change aspect of the image on-screen. |  |
| 6                | Press to mute sound. Press to display and cancel CC (Closed Caption).   |  |
| 7                | Press to adjust TV sound and navigate in menus.   |  |
| 8                | Press to choose menu and sub-menu entry.  |  |

| BUTTON<br>NUMBER | DESCRIPTION  |
|------------------|--|
| 9                | Press to display Main Menu or return one step backward in menus.   |
| 10               | Press numeric keypad to select any channel or press to enter alphanumeric input in menus.  |
| 11               | Press to switch to previously viewed channel, Photo Viewer™ or input modes.  |
| 12               | PIP MIN - While remote is in TV mode, press to decrease the PIP size.  REW - While remote is in VCR or DVD mode, press to rewind.              |
| 13               | While remote is in VCR or DVD mode, press to play.   |
| 14               | While remote is in VCR or DVD mode, press to pause.  |
| 15               | FREEZE - While in TV mode, press to stop action in the PIP or Split frame.  TV/VCR - Press to switch to TV or VCR.                             |
| 16               | Press to display or delete PIP frame.  |
| 17               | Press to display or delete Split frame.  |
| 18               | In analog mode, press to access audio modes (Stereo, SAP or Mono). In digital mode, press to access next audio track.                          |
| 19               | Press to illuminate remote buttons.  |
| 20               | Press to switch to (A or B) RF antenna input.  |
| 21               | Press to turn BBE OFF or ON.   |
| 22               | Press to display or delete Channel banner.   |
| 23               | Press to exit menus.   |
| 24               | Press to change channels and navigate in menus.  |
| 25               | Press after entering major channel numbers to enter minor (-) channel numbers.   |
| 26               | PIP MAX - While in TV mode, press to increase the PIP size.  FF - While in VCR or DVD mode, press to fast forward.                             |
| 27               | While remote is in VCR mode, press to record.  |
| 28               | While remote is in VCR or DVD mode, press to stop.   |
| 29               | SEARCH - Press to scan available channels in search frames. Press again to delete search frames. OPEN/CLOSE - Press to open or close DVD tray. |
| 30               | Press to change channels for PIP or VCR.   |
| 31               | Press to swap Main picture with PIP or Split frame.  |
| 32               | While PIP frame is displayed, press to move to one of four corners.  |

#### **Operating Components with Remote Control**

**Note:** Refer to page 18 for programming Remote Control procedure.

#### Operating a VCR

Program the remote control to use with VCR.

| TO DO THIS                   | PRESS                |
|------------------------------|----------------------|
| Turn on/off                  | POWER                |
| Select TV Input mode for VCR | TV/VIDEO             |
| Change Channels up/down      | PIP CH<br>DVD/VCR CH |
| Record                       | REC<br>●             |
| Play                         | PLAY -               |
| Stop                         | STOP                 |
| Fast Forward                 | PIP MAX<br>FF<br>▶►  |
| Rewind the Tape              | PIP MIN<br>REW       |
| Pause                        | PAUSE                |
| Change to TV or VCR Mode     | FREEZE<br>TV/VCR     |
| On screen VCR Display        | RECALL               |

#### **Operating a CABLE BOX**

Program the remote control to use with Cable Box.

| TO DO TINO               | PPF00                   |
|--------------------------|-------------------------|
| TO DO THIS               | PRESS                   |
| Turn on/off              | POWER                   |
| Select a Channel         | 1 2 3<br>4 5 6<br>7 8 9 |
| Change Channels Up/Down  | CH<br>CH<br>♥           |
| Back to previous channel | R-TUNE                  |

#### Operating a DBS

Program the remote control to use with DBS.

| TO DO THIS               | PRESS                       |
|--------------------------|-----------------------------|
| Turn on/off              | POWER                       |
| Display DBS menu         | OK                          |
| Menu Navigation          | VOL CH VOL                  |
| Select a Channel         | 1 2 3<br>4 5 6<br>7 8 9     |
| Program Information      | RECALL                      |
| Back to previous channel | R-TUNE                      |
| Select next page up/down | PIP CH<br>DVD/VCR CH<br>▼ ▲ |
| Exit menus               | EXIT                        |

#### Operating a DVD

Program the remote control to use with DVD

| <u> </u>                 |                      |
|--------------------------|----------------------|
| TO DO THIS               | PRESS                |
| Turn on/off              | POWER                |
| Next/Previous Chapter    | CH<br>CH             |
| DVD Display              | RECALL               |
| Skip Search Reverse      | PIP MIN<br>REW       |
| Skip Search Fast Forward | PIP MAX<br>FF        |
| Play                     | PLAY                 |
| DVD Open/Close           | SEARCH<br>OPEN/CLOSE |
| Stop                     | STOP ■               |
| Still                    | PAUSE ■■             |
| Slow +/-                 | FREEZE<br>TV/VCR     |

#### **Operating a Cassette Deck**

To operate a cassette deck, the remote control must be in AUX mode and be programmed with the appropriate code for your equipment.

| TO DO THIS              | PRESS          |  |
|-------------------------|----------------|--|
| Turn on/off             | POWER          |  |
| Receiver Volume Up/Down | ✓ VOL VOL ►    |  |
| Deck A/B                | R-TUNE         |  |
| Record                  | REC            |  |
| Play                    | PLAY 🕒         |  |
| Stop                    | STOP           |  |
| Fast Forward            | PIP MAX<br>FF  |  |
| Rewind the Tape         | PIP MIN<br>REW |  |
| Pause                   | PAUSE III      |  |

#### Operating a Receiver

Program the remote to operate audio receiver.

| TO DO THIS                         | PRESS  |  |
|------------------------------------|--|--|
| Turn on/off                        | POWER  |  |
| Audio Mute                         | SI)  |  |
| RCVR. VOI Up Down                  | ✓ VOL VOL ▶  |  |
| Tuner Pre-set stations Up/<br>Down | CH<br>CH   |  |
| To select AV Inputs or Components: | Press Remote numeric Keypad  AV 1 Press 1  AV 2 Press 2  AV 3 Press 3  AV 4 Press 4  CD Press 5  TUNER Press 6  PHONO Press 7  TAPE Press 8  AUX Press 9 |  |
| Surround VOL Down                  | PIP MIN<br>REW   |  |
| Surround VOL UP                    | PIP MAX<br>FF<br>►►  |  |
| Center CH VOL Up/Down              | PIP CH<br>DVD/VCR CH   |  |

#### **Operating a PVR (Personal Video Recorder)**

Program the remote control to use with a PVR.

| TO DO THIS               | PRESS                        |
|--------------------------|------------------------------|
| Turn on/off              | POWER                        |
| Display PVR menu         | MENU                         |
| PVR Navigation           | VOL VOL CH                   |
| Select a Channel         | 1 2 3<br>4 5 6<br>7 8 9<br>0 |
| Play                     | PLAY 🕒                       |
| Record                   | REC                          |
| Pause                    | PAUSE                        |
| Back to previous channel | R-TUNE                       |
| Exit menus               | EXIT                         |
| Replay Zones             | R-TUNE                       |
| Quick Skip               | SEARCH<br>OPEN/CLOSE         |
| Return to live           | PROG                         |
| PVR CH Up/Down           | PIP CH<br>DVD/VCR CH         |

#### **Programming The Remote**

The Universal Remote Control can be programmed to operate many manufacturers' components, using the component function buttons for VCR, DVD, DBS, RCVR or AUX. Follow the procedures for programming your Remote Control with or without a code for the component.

| Device | Operates                                       | Default                                   |
|--------|--|---|
| TV     | TV (Panasonic Only)                            | Panasonic Code                            |
| VCR    | VCR (Preset)                                   | Panasonic Code                            |
| DVD/CD | DVD and CD (Preset)                            | Panasonic Code                            |
| DBS    | DBS STB & CBL STB (Preset)                     | Panasonic DBS Code                        |
| RCVR   | Audio Receiver (Preset)                        | Panasonic RCVR Code                       |
| CBL    | Cable (Preset)                                 | Panasonic CABLE<br>Code                   |
| AUX    | Personal Video Recorders,<br>Cassette and VCR2 | Panasonic Personal<br>Video Recorder Code |

**Note:** Determine the manufacturer of the component and look in the table for the code (found on page 19).

#### **Procedure**

 Confirm that the external component is plugged and operating.

POWER

- 2. Turn the component off.
- 3. Press OK and together, for at least 5 seconds. After 5 seconds, the illuminated mode (component) buttons will begin to flash. Release the OK and POWER buttons.
- Press appropriate component button on the Remote Control VCR, DVD, DBS, RCVR, CBL or AUX (PVR or VCR2). The component button will illuminate steadily and all others will go out.
- 5. Enter the 3-digit component code using the Remote Control numeric keypad (0  $\sim$  9 buttons). The component button will blink twice.
- 6. Press the Remote Control to test the component.

  If the procedure was successful, the component will turn on and the component key will blink twice and then go out.

Note: If the component does not operate with the Remote Control, repeat steps 3 through 6 using another code. (Some brands have multiple codes). If an incorrect code is entered, or if the procedure takes longer than 30 seconds, the programming will fail.

#### **Programming Without A Code**

This procedure searches all codes and is called the "sequence method."

- 1. Confirm that the external component is plugged in and on.
- 2. Turn the component off.
- 3. Press OK and together, for at least 5 seconds. After 5 seconds, the illuminated mode (component) buttons will begin to flash. Release the OK and POWER buttons.

4. Press appropriate component button on the Remote Control.

**POWER** 

- 5. Press the button to set the remote control into the step and set mode.
- 6. Point the remote control towards the component.
- 7. Press **VOL** ► (the mode key will blink three times), then power press the Remote Control to test the component.

Continue this process until the proper code is found. If the procedure was successful, the component will **turn on**.

**Note:** Each time you press the VOL▶ button, make sure that the component key blinks twice before pressing the POWER button.

8. Once the device responds, press **ok** to store the code. The mode (component) button will blink twice.

Note: It may take many attempts before the correct code is found. If you miss a code, press ◀VOL, then press the POWER

button to test the component.

#### **Component Codes**

The Universal Remote Control is capable of operating many component brands after entering a code. Some components may not operate because the codes are not available due to limited memory. The Universal Remote Control does not control all features found in each model.

| Write the code numbers from tables in this space. This will serve as a reference if you need to program your Remote Control. |            |          |  |
|--|------------|----------|--|
| VCR  | DVD        | DVD (CD) |  |
|  |            |          |  |
| DBS  | RECEIVER   | CABLE    |  |
|  |            |          |  |
| AUX (PVR)  | AUX (VCR2) |          |  |
|  |            |          |  |

## **Component Codes (cont.)**

| Code              | Codes For VCR                        |  |
|-------------------|--------------------------------------|--|
| Brand             | Code                                 |  |
| Admiral           | 335                                  |  |
| Aiwa              | 332                                  |  |
| Akai              | 314, 315, 316, 329                   |  |
| Audio             |                                      |  |
| Dynamic           | 311, 339                             |  |
| Bell & Howell     | 305, 313                             |  |
| Broksonic         | 320, 326                             |  |
| Canon             | 323, 325                             |  |
| CCE               | 343                                  |  |
| Citizen           | 306                                  |  |
| Craig             | 305, 306, 329                        |  |
| Curtis<br>Mathes  | 324, 345                             |  |
| Daewoo            | 301, 324, 343                        |  |
| DBX               | 310, 311, 339                        |  |
| Dimensia          | 345                                  |  |
| Emerson           | 303, 319, 320, 325,<br>326, 343      |  |
| Fisher            | 305, 307, 308, 309,<br>313           |  |
| Funai             | 320, 326, 334                        |  |
| GE                | 324, 333, 345                        |  |
| Goldstar          | 306                                  |  |
| Gradiente         | 334                                  |  |
| Hitachi           | 300, 323, 345                        |  |
| Instant<br>Replay | 323, 324                             |  |
| Jensen            | 339                                  |  |
| JVC               | 310, 311, 334, 339                   |  |
| Kenwood           | 306, 310, 311, 339                   |  |
| LXI               | 300, 305, 306, 307,<br>308, 309      |  |
| Magnavox          | 323, 324, 331                        |  |
| Marantz           | 310, 311, 339                        |  |
| Marta             | 306                                  |  |
| Memorex           | 309, 324                             |  |
| MGA               | 338, 340, 341, 347,<br>348           |  |
| Minolta           | 300, 345                             |  |
| Mitsubishi        | 338, 340, 341, 347,<br>348           |  |
| Multitech         | 304, 347                             |  |
| NEC               | 310, 311, 334, 339                   |  |
| Olympic           | 323, 324                             |  |
| Optimus           | 306, 321, 328, 335                   |  |
| Orion             | 320, 326                             |  |
| Panasonic         | 321, 322, 323, 324                   |  |
| Penney            | 300, 305, 310, 311,<br>324, 339, 345 |  |
| Pentax            | 300, 311, 345                        |  |

| •••                |  |
|--------------------|--|
| Codes Fo           | r VCR (Contd.)   |
| Brand              | Code   |
| Philco             | 320, 323, 324, 326,<br>331, 343                        |
| Philips            | 323, 324, 331  |
| Pioneer            | 323  |
| Proscan            | 300, 301, 302, 323,<br>324, 331, 333, 345,<br>346      |
| Quasar             | 321, 322, 323, 324                                     |
| Radio Shack        | 305, 309, 324, 333,<br>336, 340                        |
| RCA                | 300, 301, 302, 323,<br>324, 331, 333, 345,<br>346      |
| Realistic          | 305, 309, 324, 336,<br>340                             |
| Samsung            | 302, 304, 333  |
| Sansui             | 320, 326, 339, 352                                     |
| Sanyo              | 305, 309, 313  |
| Scott              | 301, 302, 304, 309,<br>320, 326, 338, 340,<br>347, 348 |
| Sears              | 300, 305, 306, 307,<br>308                             |
| Sharp              | 335, 336   |
| Shintom            | 317  |
| Signature<br>2000  | 335  |
| Singer             | 337  |
| Sony               | 328, 329, 330  |
| Sylvania           | 323, 324, 331  |
| Tashiro            | 306  |
| Tatung             | 310, 311, 339  |
| Teac               | 310, 311, 339  |
| Technics           | 321, 322, 323, 324                                     |
| Teknika            | 324  |
| Toshiba            | 301, 346   |
| Vector<br>Research | 311  |
| Wards              | 306, 309, 335, 336,<br>344                             |
| Yamaha             | 305, 310, 311, 339                                     |
| Zenith             | 306,344  |

| Codes For C            | able Box               |
|------------------------|------------------------|
| Brand                  | Code                   |
| ABC                    | 124                    |
| Archer                 | 125, 132               |
| Cableview              | 105, 132               |
| Citizen                | 105, 122               |
| Curtis                 | 112, 113               |
| D: 1                   | 124, 125,              |
| Diamond                | 132                    |
| Eagle                  | 129                    |
| Eastern                | 134                    |
| GCbrand                | 105, 132               |
| Gemini                 | 122                    |
|                        | 111, 119,              |
| General<br>Instrument/ | 120, 121,              |
| Jerrold                | 122, 124,<br>125, 126, |
| Corrola                | 127                    |
|                        | 112, 118,              |
| Hamlin                 | 140, 141,              |
|                        | 142, 145               |
| Hitachi                | 103, 124               |
| Macom                  | 103, 104,              |
| Manusau                | 105                    |
| Magnavox               | 133                    |
| Memorex                | 130                    |
| Movietime              | 105, 132<br>102, 137,  |
| Oak                    | 102, 137,<br>139       |
| Panasonic              | 109, 110, 114          |
| i dilasellie           | 106, 1107,             |
| Philips                | 128, 129,              |
| ·                      | 130                    |
| Pioneer                | 101, 116               |
| Pulsar                 | 105, 132               |
| Puser                  | 132                    |
| RCA                    | 115                    |
| Realistic              | 132                    |
|                        | 112, 118,              |
| Regal                  | 140, 141,              |
|                        | 142, 145,<br>149       |
| Regency                | 134                    |
|                        | 105, 132,              |
| Rembrandt              | 137                    |
| Samsung                | 105                    |
| Scientific Atlanta     | 111, 112, 113          |
| Slmark                 | 101, 105               |
| Sprucer                | 105, 110               |
| Stargate               | 105, 110               |
| Teleview               | 101, 105               |
| Texscan                | 144                    |
| Tocom                  | 135                    |
| Toshiba                | 104                    |
| Unika                  | 125, 232               |

| Codes For Cable             | Box (Contd.)          |
|-----------------------------|-----------------------|
| Brand                       | Code                  |
| Universal                   | 122, 132              |
| Videoway                    | 106                   |
| Viewstar                    | 129, 130              |
| Zenith                      | 100, 117              |
| Zenith/.Drake               | 100                   |
| Satellite                   | 100                   |
| Codes Fo                    | r DBS                 |
| Brand                       | Code                  |
| Dish Network                | 105, 115, 116         |
| (Echostar)                  |                       |
| Echostar                    | 105                   |
| Express VU                  | 105, 115              |
| G. E.                       | 106                   |
| G.I. (General               | 108                   |
| Instrument)                 |                       |
| Gradiente                   | 114                   |
| Hitachi                     | 103, 111,             |
|                             | 112                   |
| HNS (Hughes)                | 103                   |
| Magnavox                    | 101, 102              |
| Panasonic                   | 104                   |
| Philips                     | 101, 102              |
| Primestar                   | 108                   |
| Proscan                     | 106, 109, 110,<br>113 |
| RCA                         | 106, 109,<br>110, 113 |
| Sony                        | 107                   |
| Star Choice                 | 103, 108              |
| Toshiba                     | 100                   |
| Uniden                      | 101, 102              |
| Codes Fo                    | r DVD                 |
| Brand                       | Code                  |
| Denon                       | 100                   |
| Ferguson                    | 101                   |
| JVC                         | 109                   |
| Mitsubishi                  | 105                   |
| Nordmende                   | 101                   |
| Panasonic                   | 100                   |
| Philips                     | 103                   |
| Pioneer                     | 102                   |
| RCA                         | 101                   |
| Saba                        | 101                   |
| Samsung                     | 110                   |
| Sharp                       | 108                   |
| Sony                        | 104                   |
| Technics                    | 100                   |
| Thomson                     | 101                   |
|                             | 103                   |
| Toshiba                     |                       |
| Toshiba<br>Yamaha           |                       |
| Toshiba<br>Yamaha<br>Zenith | 100                   |

## **Component Codes (Cont.)**

| Codes For C      | assette Decks |
|------------------|---------------|
| Brand            | Code          |
| Aiwa             | 223, 224, 225 |
| Denon            | 231           |
| Fisher           | 203           |
| Jensen           | 214           |
| JVC              | 229, 230      |
| Kenwood          | 200, 207      |
| Marantz          | 202           |
| Nakamichi        | 205           |
| Onkyo            | 208, 209, 213 |
| Panasonic        | 216, 218      |
| Philips          | 222           |
| Pioneer          | 204           |
| RCA              | 226, 227, 228 |
| Sansui           | 205, 210      |
| Sharp            | 231           |
| Sony             | 219, 220      |
| Teac             | 210, 211, 215 |
| Technics         | 216, 218      |
| Yamaha           | 201, 202      |
| Codes Fo         | or Receivers  |
| Brand            | Code          |
| Admiral          | 120           |
| Aiwa             | 125, 126      |
| Denon            | 134, 135, 136 |
| Fisher           | 104           |
| Garrard          | 113           |
| Harman<br>Kardon | 115, 123      |
|                  |               |

129

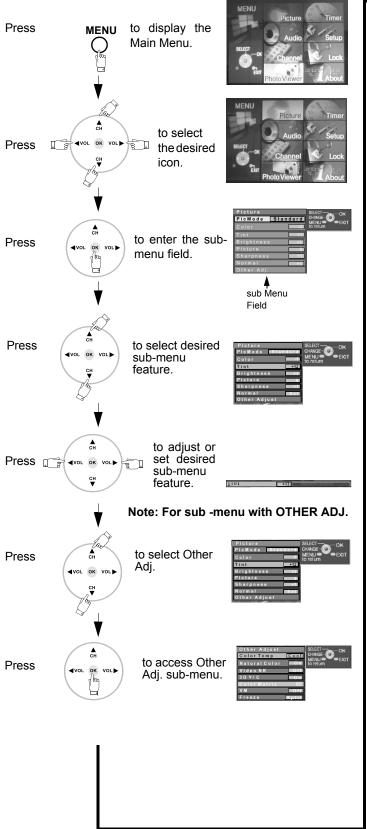
| Codes For Receivers (cont.) |                            |
|-----------------------------|----------------------------|
| Brand                       | Code                       |
| JVC                         | 132, 133                   |
| Kenwood                     | 100, 108                   |
| Magnavox                    | 127                        |
| Marantz                     | 124                        |
| McIntosh                    | 116                        |
| Nakamichi                   | 106                        |
| Onkyo                       | 109, 114                   |
| Optimus                     | 103, 127, 130,<br>131      |
| Panasonic                   | 118, 119, 121              |
| Philips                     | 123                        |
| Pioneer                     | 105, 107                   |
| Quasar                      | 118, 119, 121              |
| RCA                         | 103, 105, 127,<br>130, 131 |
| Sansui                      | 103, 111, 139              |
| Sharp                       | 134, 137                   |
| Sony                        | 122                        |
| Soundesign                  | 138                        |
| Teac                        | 111, 112, 113              |
| Technics                    | 118, 119, 121              |
| Victor                      | 132, 133                   |
| Yamaha                      | 101, 102                   |

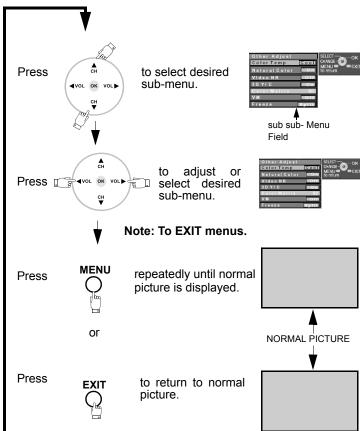
| Codes For CD Player |                       |
|---------------------|-----------------------|
| Brand               | Code                  |
| Admiral             | 226                   |
| Aiwa                | 233, 235              |
| Carver              | 229                   |
| Denon               | 242                   |
| Emerson             | 239                   |
| Fisher              | 205                   |
| Harman/Kardon       | 219, 220,<br>221, 223 |
| Hitachi             | 207                   |
| Jensen              | 234                   |
| JVC                 | 240, 241, 245         |
| Kardon              | 223                   |
| Kenwood             | 200, 201, 211,<br>245 |
| LXI/Sears           | 236                   |
| Magnavox            | 229, 232              |
| Marantz             | 229                   |
| McIntosh            | 221                   |
| Nakamichi           | 210                   |
| Onkyo               | 214, 215              |
| Optimus             | 208, 218,<br>220, 222 |
| Panasonic           | 224, 225, 227         |
| Philips             | 229, 230              |
| Pioneer             | 208                   |
| Quasar              | 224, 225, 227         |
| RCA                 | 231, 237,<br>238, 247 |
| Sansui              | 210, 246              |
| Sanyo               | 205                   |
| Scott               | 210, 246              |
| Sharp               | 242, 243              |
| Sherwood            | 220                   |
| Sony                | 228                   |
| Soundesign          | 244                   |
| Teac                | 212, 216, 218         |
| Technics            | 224, 225, 227         |
| Victor              | 240, 241, 245         |
| Yamaha              | 202, 203, 204         |

| Codes For Personal Video<br>Recorders |      |
|---------------------------------------|------|
| Brand                                 | Code |
| Panasonic Replay<br>TV                | 100  |
| Philips Tivo                          | 102  |
| Sony Tivo                             | 101  |

Jensen

## **Basic Menu Navigation**





## **Menu Operations**

#### **PICTURE**

**Note:** While sub-menu features are highlighted, press **◄ VOL** or **VOL ▶** to adjust or activate.

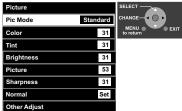
□ PIC MODE - Lets you choose one of three pre-set Picture Modes that best suits the program you are viewing. Selecting this feature will also affect Color Temperature setting.

PIC MODE-COLOR TEMP DEFAULT SETTINGS

| PIC MODE | COLOR TEMP |
|----------|------------|
| VIVID    | COOL       |
| STANDARD | NORMAL     |
| CINEMA   | WARM       |

**Note:** Each mode has its own picture settings (Color, Tint, Brightness, Picture and Sharpness) and Color Temp. settings.

- VIVID This is the default mode, It provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- STANDARD Recommended for normal viewing conditions with subdued room lighting.
- CINEMA Select this mode for watching movies in a darkened room. It provides a soft, film-like picture.
- COLOR Adjusts desired color intensity.
- TINT Adjusts natural flesh tones.
- ☐ BRIGHTNESS Adjusts dark areas of picture.
- ☐ PICTURE Adjusts white areas of picture.
- ☐ SHARPNESS Adjusts clarity of outline detail.
- NORMAL Reset each PIC Mode adjustments to factory default settings.

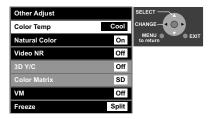


#### ☐ Other Adjust

Highlight OTHER ADJ. and press OK button to display the sub-menu.

Note: While sub sub-menu features are highlighted, press

◀ VOL or VOL ▶ to select or activate.



- COLOR TEMP (temperature) To increase or decrease WARM (red) and COOL (blue) colors to suit personal preferences.
- NATURAL COLOR To increase the color reproduction range with natural color gradation and highly delicate hues.
- VIDEO NR Reduces noise in the channel, commonly called snow.

- 3D Y/C FILTER Minimizes noise and cross color in the picture.
- COLOR MATRIX Available only with 480p signal. Select HD or SD to automatically adjust color parameters for HD (high definition) and SD (standard definition). This feature is not selectable when viewing regular TV (NTSC) program.

**Note:** When viewing a non-standard DTV signal format, you can change color parameters manually for the best picture quality.

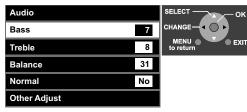
- VM (VELOCITY MODULATION)-To increase picture sharpness and provides crisp white to black transitions
- FREEZE This feature is used to freeze main picture and display it in a PIP or SPLIT frame, when the FREEZE button on the remote control is pressed. Press FREEZE again to delete frame.

**Note:** SWAP, SIZE, SEARCH, PIP MIN and PIP MAX buttons are not functional in this mode.

#### **AUDIO**

Note: While sub-menu features are highlighted, press ◀ VOL or VOL ▶ to adjust or activate.

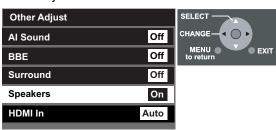
- BASS Increase or decrease the bass response.
- ☐ TREBLE Increase or decrease the treble response.
- ☐ BALANCE Emphasize the left/right speaker volume.
- □ NORMAL Reset BASS, TREBLE and BALANCE adjustments to factory default settings.



#### Other Adjust

Note: While sub sub-menu features are highlighted, press VOL

▶ to adjust or activate.



- Al SOUND Equalize overall volume levels across all channels. (Al sound is not available in VIDEO mode).
- BBE<sub>®</sub> BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

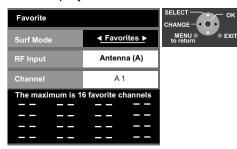
#### **AUDIO** (cont.)

- ☐ Other Adjust (cont.)
  - SURROUND Enhances audio response when listening to stereo.
  - SPEAKERS This feature is used to turn TV speakers ON or OFF.
    - · On TV speakers operate normally.
    - Off TV speakers off.
  - HDMI In When using HDMI, this feature will let you switch between Analog Input and Digital Input.
    - Auto Automatically selects Analog / Digital signal.
    - Digital Selects Digital Input only.
    - Analog Selects Analog Input only.

#### **CHANNEL**

**Favorite -** Allows you to create Favorite channel list from Antenna (A) or Antenna (B).

- Surf Mode Select FAVORITE or ALL CHANNELS with remote control ◀ VOL or VOL ▶, then press the OK button.
- ☐ **RF Input** Select Antenna (A) or Antenna (B).
- □ Channel Use the remote control VOL or VOL to select desired channels, then press the OK button to add. To delete channel, press OK again while channel number is displayed.



**Captions -** To enter preset and manual labels to desired stations. Also to enter input label to video inputs.

Preset Labels - To enter channel numbers for popular TV stations.

#### **Procedure**

 Press **OK** button while Preset Labels is selected to select RF Input, then press **◄ VOL** or **VOL ▶** to select Antenna (A) or Antenna (B).

**Note:** Only input with signal will be selectable.

- Press **OK** button to underline your selection.
- Press CH ▼ to select desired preset caption.
- Then use the remote numeric keypad to select desired channel (refer to your local TV guide).
- Press **OK** to enter the selection.



**Note:** To delete a channel number, while highlighted press ◀ **VOL** repeatedly until all numbers are removed, then press **OK** button.

☐ **Manual Labels** - To enter numbers and captions manually.

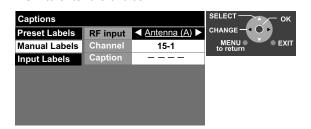
#### **Procedure**

 Press **OK** button while Manual Labels is selected to select RF Input, then press **◄ VOL** or **VOL ▶** to select Antenna (A) or Antenna (B).

**Note:** Only input with signal will be selectable.

- Press **OK** button to underline your selection.
- Press CH ▼ to select Channel, then press ◀ VOL or VOL ► to select available channel number.
- Press CH ▼ to select CAPTION.
- Press VOL ➤ to select first character position, then
  press CH ▲ or CH ▼ to select character (refer to
  your local TV guide for labeling channels).
- Repeat until all characters are added, up to (7) characters can be added for each channel.
- Press **OK** button to underline your selection.

Note: To delete the Channel Caption, highlight the first character and press CH ▲ or CH ▼ until no character is displayed. Move to the next character and repeat the process. After all characters have been deleted, press OK to enter the choice.

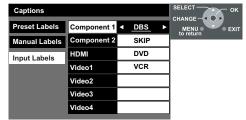


☐ Input Labels - To label video input connections for onscreen display.

#### **Procedure**

- Press OK button while Input Labels is selected to select COMPONENT 1, then press ◀ VOL or VOL ► to select preset INPUT LABEL for component 1.
- Press **OK** to underline your selection.
- Press CH ▼ to select another input, then repeat procedure for adding more labels to inputs.

- To delete Input labels, select desired input, then press ◀ VOL or VOL ▶ until no label is displayed.
- Press **OK** button to enter your selection.



#### **Photo Viewer™ Operation**

Photo Viewer™ lets you display JPEG images recorded by digital camera on SD card or other types of memory card when it is inserted in the proper card slot.



#### Notes:

- Photo Viewer™ can only show still images recorded by Digital Still Camera with DCF and EXIF standard JPEG file.
- Other types of Memory cards can be inserted into the PCMCIA card slot by using the appropriate Card adaptor.
- Memory cards are not supplied with this television.

## Compatible memory cards that can be viewed with Photo Viewer™

| TIOLO VICANCI   |   |
|---|---|
| Card type   | Maximum Size  |
| SD, MMC (Multi Media Card),<br>Smart Media*, Compact Flash*<br>Memory Stick*, xD-Picture Card*<br>Flash ATA*, Memory Stick Pro*   | SD - 512MB, MMC - 64MB<br>Smart Media - 128MB,  |
| *These cards require standard PCMCIA adaptor. (Some PC card adaptor will not be compatible). Note: Photo Viewer™ is not compatible with card type hard disk (Micro Drive, Mobile type hard disk, etc. | Compact Flash - 1 GB<br>Memory Stick - 128MB<br>xD-Picture Card - 128MB<br>Flash ATA - 128 MB<br>Memory Stick Pro - 1GB |

#### Inserting and Removing SD or PCMCIA card

WARNING: As with any small object, SD cards can be swallowed by young children. Do not allow children to handle the SD card. Please remove the SD card immediately after use.

#### **Procedure**

- ☐ SD card Push in the SD card into the SD card slot until it is clicked in. Press again on the card to remove it.
- PCMCIA card Push in the card firmly until it is seated. To release the card, press the release button on the right side of the card slot. Before inserting or removing the PCMCIA card, make sure that the TV is turned Off. Otherwise, it may damage the unit. Do not insert anything other than the PCMCIA card.

#### Information Regarding memory cards

Memory cards must be formatted with FAT12 or FAT16 in order to be viewed on TV. If the card is not formatted, it may cause incompatibility with certain memory card adaptors. If this happens, reformat the card using your digital camera. Refer to your camera manual for more information.

**Note:** Reformatting the card will erase the images stored in it.

#### **Basic Operation**

Insert either the SD card or the PCMCIA card into the appropriate slot. The video disappears from the screen while the Photo Viewer™ access the information from the card. After accessing the images from the card, a thumbnail screen is displayed onscreen. Use the navigation keys to select the desired thumbnail

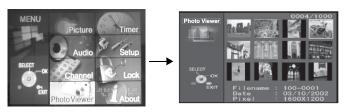
and press **OK** button to display the image on-screen. Use **◀ VOL** or **VOL** ▶ to select the previous or next picture. Press **EXIT** button to exit Photo Viewer™ mode.

#### Photo Viewer™ - Thumbnail mode

The thumbnail screen is the initial entry screen from the main menu. It shows the total number of images on the card, Filename (folder number and the number of the thumbnail that is highlighted), the date the picture was taken and the pixel (resolution) of the picture.

#### **Procedure**

- Press **MENU** button to display the Main menu.
- Highlight Photo Viewer<sup>™</sup> Icon using the navigation (Left/ Right/Up/Down) keys.
- Press **OK** button to display the thumbnail screen.



**Note:** It may take long time to display the thumbnail if there are lots of files or if the file size is big.

- Select the desired thumbnail image by using the Left/Right/Up/Down navigation keys.
- Press **OK** button to start the Single Picture View mode.
- Change the picture by pressing ■ VOL or VOL ► keys.
- Rotate the picture if necessary, by using the CH ▼ or CH ▲ kevs.

- Maximum number of folders that can be displayed: 100.
- Maximum file size: 3000. Any folder of files larger than the specified size, will not be displayed.
- **Picture resolution:** Compatible in the range 64x64 8192 x 8192 (sub-sampling 4:2:2 or 4:2:0)
- If the image is imported from a PC, it must follow the EXIF (Exchangeable image file format) 2.0, 2.1, 2.2 in addition to the DCF (design rule for Camera File system) format, or it will not be displayed.
- If the JPEG is modified using a PC, it will not be displayed on TV.
- The Photo Viewer™ cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- If the file is partially corrupted, it may be shown in lower resolution.
- If both SD card and PCMCIA card is inserted at the same time, SD card has the priority. Otherwise, the card inserted later will have priority.
- Do not remove the SD card or PCMCIA card while Photo Viewer™ is accessing the information (when the card icon is flashing). Such action may damage the memory card or the unit itself.

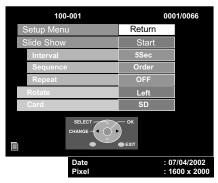
#### Photo Viewer™ Operations (Cont.)

#### Photo Viewer™ Setup Menu

This menu allows you to customize features in the Photo Viewer™ Setup menu.

#### **Procedure**

- Highlight Photo Viewer<sup>™</sup> icon and press **OK** button to display the thumbnail screen.
- Press the SD button on the remote control to display the Setup screen.
- Use the CH▼▲, ◀ VOL or VOL ▶ keys to navigate in the setup menu.



□ Slide Show - Allows you to start the slide show by pressing the **OK** button while Start is highlighted. Press **OK** button to stop the Slide Show.

**Note:** When you are in the Slide Show mode, you can change the Aspect of the image on screen by pressing the **ASPECT** button on the remote control.

- ☐ Interval Allows you to change the length of time that a slide is being displayed on screen. Available settings are: 5sec, 10sec, 15sec, 30sec, 60sec, 90sec and 10 minutes.
- Sequence Select either Order or Random.
- ☐ Repeat Select Off or On.

Note: After setting Interval, Sequence or Repeat, press CH ▲ button to select Start, then press OK to start the Slide Show.

- □ Rotate Allows you to rotate the image.
- Zoom Lets you select the magnification of the Single Slide display.

#### **Procedure**

- While in the Single Slide display mode, press SD button to display Photo Viewer™ Setup Menu. Zoom option will be displayed in the Setup Menu.
- · Highlight Zoom and press **OK** button.
- Press ■ VOL or VOL ■ button to select To Fit, x2 or x4.
- Press **OK** button. To move the image in the picture frame, press the navigation buttons.
- Press **OK** to view the slide in normal magnification.
- ☐ Card Select either SD or PC when both cards are inserted in the slots.

Following are some of the error messages that may be displayed on-screen when certain conditions are not met or exceeds the Photo Viewer™ specifications.

**Error messages** 

| Enormessages   |   |  |
|--|---|--|
| Error condition  | Error messages displayed on-screen                    |  |
| When inserting Card  | No card or Card is not inserted correctly             |  |
| If the JPEG file is corrupted and cannot be decoded.                             | This type of image is not supported.                  |  |
| If the card is not formatted with FAT 12 or FAT 16 or if it is not DCF standard. | This type of format is not supported.                 |  |
| If thumbnail and main picture cannot be shown                                    | This icon will appear where thumbnail image will.     |  |
| Over 3000 image files  | Photo Viewer™ cannot support over 3000 JPEG files.    |  |
| Resolution over  | Photo Viewer™ cannot support over 8192 x 8192 pixels. |  |
| If incompatible card is inserted   | This type of card is not supported.                   |  |

Photo Viewer™ Troubleshooting

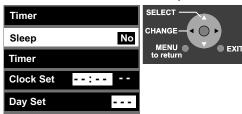
| Photo viewer iii Troubleshooting    |   |
|-------------------------------------|---|
| Symptoms                            | Solutions   |
| Cannot read the content of the card | A) Not compatible format. Must be formatted with FAT 12 or FAT 16. B) The extension is not "JPG". Photo Viewer™ can display EXIF standard JPEG file, and JPEG file which is not EXIF standard cannot be shown. C) The folders not under DCF standard. |
| PC card cannot be ejected           | Push the card all the way in, and eject.  |
| Poor picture quality                | If the main image cannot be read (the file is partially corrupted), the Photo viewer™ will read the thumbnail. Please confirm the format of the image.  |
| Long time to display                | It will take long time to display, if there are lots of images or if the file size is big.  |

- If thumbnail screen or a single slide image is displayed for longer than 10 minutes, Image shift (refer to page 26) feature will be activated to prevent image retention. The image on-screen will zoom-in and zoom-out in 4 (four) steps. To exit this mode, press OK button or select another slide or press any button.
- During the Slide show, the Image shift feature will activate if the image is displayed longer than 5 (five) minutes. The image will be shifted horizontally (left or right) in minute increments. Image shift feature will not activate, if it is turned Off.

#### **Timer**

This menu lets you set the sleep timer, Timer (On/Off), clock and the day of the week.

□ Sleep - Select to turn the PTV off in 30, 60, or 90 minutes. Select No to turn the sleep timer off.

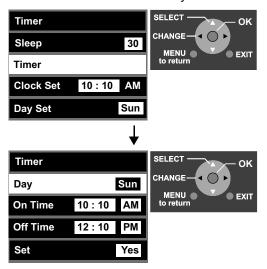


#### **Procedure**

- Press **MENU** button to display the Main Menu.
- Highlight the Timer icon using the navigation buttons.
- Press **OK** button to display the Timer menu.
- Press **VOL** ▶ button to select 30, 60, 90 minutes or No.

**Note:** The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to turn off.

☐ **Timer** - Select timer to turn the PTV on and off at selected times and on selected day.



#### Procedure

- While in the Timer menu, press CH ▼ button to highlight Timer.
- Press **OK** button to display the Timer sub-menu.
- Press 

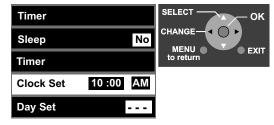
  VOL or VOL 

  button to select appropriate day setting.
- Press CH ▼ to highlight On Time.
- Press OK button to enter the time field. Press CH ▲ or
   CH ▼ button to set the hour (AM or PM).
- Press VOL ▶ and press CH ▲ to set the minutes.
- After setting hour and minutes, press OK or MENU button to guit the settings.
- Press CH ▼ to highlight Off Time and repeat the same procedure as for setting time.
- Press CH ▼ to highlight Set and select Yes or No.
- Press EXIT button to exit the menus.
- Enter the desired channel number using the numeric keypad and the **PROG** button (if necessary). The

- television will tune to this channel when timer is activated.
- Turn Off the set.
- The television will turn On at the selected time and the channel will be the channel selected before turning the TV off.

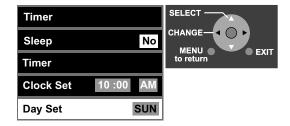
#### Notes:

- Clock must be set before you can set Timer. Use navigation buttons to highlight the Timer Icon.
- The television automatically turns OFF after 90 minutes when turned ON by the Timer. If the OFF time is selected or if a key is pressed, the automatic OFF after 90 minutes will be cancelled.
- ☐ Clock Set Select to set the Time of the day.



#### **Procedure**

- While in Timer menu, press CH ▼ to highlight Clock Set and press OK button.
- Press CH ▲ or CH ▼ button to set the hour (AM or PM).
- Press VOL ➤ to enter the next field. Press CH ▲ or
   CH ▼ button to the minutes. Press MENU or OK to return to the Timer screen.
- **Day Set** Select to set the day of the week.



#### **Procedure**

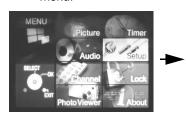
- Press CH ▼ to highlight Day Set and select the day of the week using ◀ VOL or VOL ▶ button.
- Press EXIT button to quit the timer menu screen.

#### **Set Up**

This menu lets you select antenna, program channels, select analog and digital closed caption, Convergence, Auto Power On, Image Shift and Zoom Adjust.

#### **Procedure**

- Press **MENU** to display the Main Menu.
- Press ▼CH, CH▲, ◀ VOL or VOL ▶ to select the Setup icon.
- Press **OK** button to display the options in the Setup menu.





#### **Program CH**

This menu allows you set up the antenna, auto scan all available analog and digital channels, manually add or delete channels and display the signal strength of the digital channels.

☐ Input Setup - Lets you specify Antenna mode (Cable only, Cable/Antenna or Antenna only).

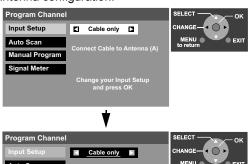
**Note:** You can connect either a Cable antenna or a terrestrial antenna to Ant A. However, if you have both Cable signal and terrestrial antenna signal, the Cable signal **must** be connected to the Ant A input on the back of the projection television. Connect the antenna signal to the Ant B input.

#### **Procedure**

- In Set Up menu, select Program Channel and press OK.
- Press OK to enter sub-menu. Press 

  VOL or VOL 

  to select Cable Only, Cable/Antenna or Antenna Only.
- Press OK button to enter your selection. When the next screen will be displayed, press OK button to start the Auto scan. Auto scan must be done when you select the input signal for the first time or whenever you change the antenna configuration.



Auto scan is needed press OK to start Auto Scan

#### Notes:

Manual Progra

If Cable Only, Antenna Only or Antenna/Cable is selected and DCM (Digital Cable Module) is not in, the Auto scan will perform Scan All.

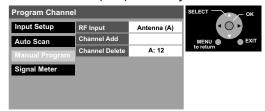
- If Cable Only is selected and CableCARD is in, Auto scan will be skipped.
- If Cable/Antenna is selected and CableCARD is in, Antenna (B) Analog & Digital Auto scan will be performed.
- Auto Scan To automatically Scan All available channels, Antenna (A) Analog, Antenna (A) Analog & Digital, Antenna (B) Analog and Antenna (B) Analog & Digital.

#### **Procedure**

- Highlight Auto Scan and press OK to enter the sub menu.
- Use ▼ CH and CH ▲ to select and press OK to start the auto scan. After Auto Scan is completed press MENU to return to the previous screen.



Manual Program - To add or delete channels from either channels list (A/B) manually.



☐ Signal Meter - Displays the signal strength of the ATSC digital channel in either Antenna (A) or Antenna (B).

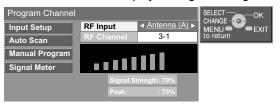
**Note:** Signal meter feature is not available for analog channels.

#### **Procedure**

- Highlight Signal Meter and press **OK** button to enter the sub-menu.
- In the RF Input field, select either Antenna (A) or Antenna (B).
- Select the channel number using 

  ✓ VOL or VOL 

  buttons.
- Press **OK** button to display the Signal Strength.



**Note:** The color of the signal bar usually indicates the strength of the received signal.

- Green Adequate signal for a good reception.
- Yellow Poor signal strength.
- Red Very poor signal strength.

#### **Closed Caption**

The HDTV Projection Television includes a built-in decoder that is capable or providing a visual display of the audio portion. The program viewed must provide Closed Captioning (CC) for the television to display it. You can set your preferences to both digital and analog Closed Captioning.



#### **CC Mode**

Select Off. On or On Mute.

- Off Use when Closed Captioning is not desired.
- On To display Closed Captioning.
- On Mute To display Closed Captioning when audio is muted.

#### **Analog**

This option lets you choose the closed caption service you desire.

#### **Procedure**

- In Closed Caption menu, highlight Analog and press OK button to enter the sub-menu.
- Press ■ VOL or VOL ■ to select the desired setting: CC1, CC2, CC3, CC4, T1, T2, T3 or T4.
- CC1 For video related information that can be displayed (up to 4 line of script on the screen, where it does not disturb the relevant parts of the picture). Script can be in any language.
- CC2 to CC4 Other modes used for video related information.
- T1 Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted.
- T2, T3 and T4 Other modes that display information and blank out a large portion of the picture of the television screen.
- Press MENU button to return to the Closed Caption menu.

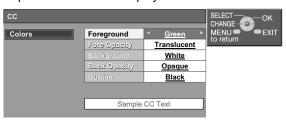
#### **Digital**

The Digital Closed Captioning menu lets you configure the way you choose to view the digital captioning. This menu will let you choose the type of closed captioning service, font type, font size, font style. The colors sub-menu lets you set the color of the font (Foreground), color the text box (Background) on which the closed caption is text is displayed, the opacity of the font (Fore Opacity), the opacity of the text box (Back Opacity), and the outline of the dropshadow (if selected under style).

#### Colors sub-menu

#### **Procedure**

 In digital closed captioning sub-menu, select Colors and press OK button to display the colors sub-menu.



**Note:** When digital caption is used on ATSC, the monitor output (Prog Out) will also output the CC information. This means, if you tape the program, the CC information will also be recorded on tape. To avoid this, either turn off digital CC or turn on analog CC.

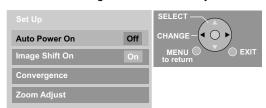
#### Other Adj.

The Other Adjust menu lets you set Auto Power On, adjust Convergence, select Image Shift On or Off and Zoom Adjust.

- □ Auto Power On Select Set to power up the PTV at the same time as the Cable box or other components or select Off.
- ☐ Image Shift This feature prevents the image retention associated with viewing fixed image for extended period of time. The image is shifted left or right in small increments if a fixed image is left on for a long time. Selecting **On** is recommended.
- ☐ Convergence This feature is used to adjust the convergence if needed.
- ☐ Zoom Adjust This feature lets you adjust the size of the zoom picture and position it vertically.

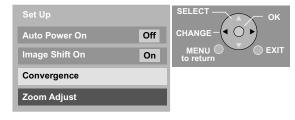
#### **Procedure**

- In Set up menu, highlight Other Adj. and press OK button to display the sub-menu.
- Use ▼ CH or CH ▲ to navigate. Press ◀ VOL or VOL ► to select or press OK button to display the submenu for Convergence and Zoom Adjust.



#### □ Convergence

Note: Only use the remote control buttons while adjusting convergence. The front control panel navigation and OK buttons have no effect.



#### Convergence (cont.)

**Note:** Convergence seldom needs adjusting except after moving the PTV or to make minor adjustments.

#### **Procedure**

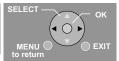
- Press OK to enter convergence sub-menu field.
- Press CH ▲ or CH ▼ to select:
  - CONVERGENCE ADJ. Select to correct minor convergence problem.

**Note:** After selecting, press **OK** to continue CONVERGENCE ADJ.

 RESET TO DEFAULT - Select to set convergence to factory default setting.

**Note:** After selecting, press **OK** to activate RESET TO DEFAULT feature.

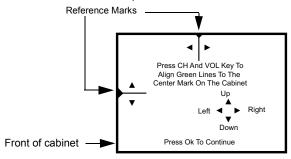




#### **CONVERGENCE ADJ.**

#### **Procedure**

- After pressing **OK** the align Green to Center screen will be displayed.
- Then use the navigation buttons on the remote control to align the horizontal and vertical green lines on screen, with the cabinet reference marks on top center and left center of cabinet, as shown below.

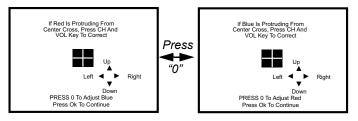


- Press **OK** button to display red center correction screen.
- Use the navigation buttons on the remote control to align the red cross with the white cross pattern at the center of the screen.

**Note:** To prevent picture tube damage do not leave test pattern on for an extended period of time.

 Then press "0" on the remote control keypad to display the BLUE center correction screen, repeat procedure for adjusting blue. If needed press "0" again to return to RED correction screen.

**Note:** An adjusted cross pattern appears white with a minimum of color protrusion.



#### NINE POINT CONVERGENCE CORRECTION

Note: Remote Control must be in TV mode.

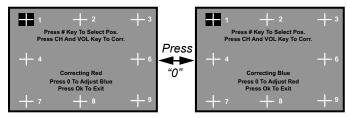
#### **Procedure**

- Press **OK** button to display red correction screen.
- Press the 1 through 9 keypad buttons on the remote control to select the desired convergence position.
- Use the navigation buttons to align the RED cross with the white cross pattern.

**Note:** An adjusted cross pattern appears white with a minimum of color protrusion.



 Press "0" on the remote control keypad to display the BLUE correction screen, then repeat procedure.



 To exit convergence screen press OK button, then press EXIT to quit all menus.

#### **Cable Module Info**

This menu is used to provide information when a CableCARD™ is inserted into the CableCARD™ INTERFACE slot on the back of the projection television. If no CableCARD™ is present and you try to access the Cable Module Info, the message 'Cable Module Not present' will be displayed on screen. To receive the features offered by your cable company, you may have to subscribe to those services.

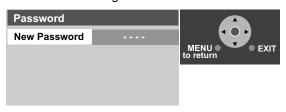
Note: Please contact your cable company regarding availability of the CableCARD module. The CableCARD module is needed to receive premium digital services (where available) through the cable input. You may also able to order call-ahead pay per view events.

#### Lock

This HDTV Projection Television incorporates V-CHIP technology to block the viewing of movies and television programs according to the rating category. There are two (2) Content Advisory Categories: MPAA (Motion Picture Association of America) and TV Parental Guidelines Ratings. These categories are used as guidelines for blocking the programs. The default mode for the Lock category is the Unlocked state. In this state, you can surf the various categories of the Lock menu. After you've created a password, you are prompted to enter it before you can make any changes in the Lock menu.

#### Creating a Password

A password is created using the New Password menu.



#### **Procedure**

- Press **MENU** button to display the Main Menu.
- · Press navigation buttons to highlight the LOCK icon.
- Press OK to display the New Password screen.
- Use the numeric keypad to create a 4 digit password.
- Press OK to enter the password. Now the PTV is in the locked state.

#### **Lock Set**

- Mode To prevent video games, VCR tapes and all channels and video modes from being viewed. The possible modes are:
  - Off Turns off Lock set functions.
  - All All channels are locked regardless of the rating level.
  - Game Lock Locks out CH 3, 4 and Video inputs.
  - Channel Lock Locks out specific analog and digital channels. Password is required to view any of the locked channels.



#### **Procedure**

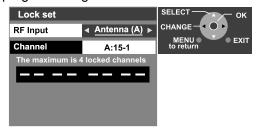
- While in the Lock menu screen, highlight Lock Set and press OK button to display the Lock Set sub-menu.
- Press ◀ VOL or VOL ▶ button to select the option and press OK button to underline the option.
- Press MENU button to return to the previous screen.

#### **Channel Lock**

This option lets you select the RF Input (Antenna (A) or Antenna (B) and block out up to four (4) channels from each input. Password is required to view these blocked channels.

☐ RF Input - Select either Antenna (A) or Antenna (B).

☐ Channel - Select up to four (4) channels to be blocked out. These channels will be blocked out regardless of the program rating.



#### **Procedure**

- In Lock Set, choose Channel Lock and press **OK** button.
- Press MENU button to return to the previous menu.
- Highlight Channel Lock and press **OK** button to display the Channel Lock sub-menu.
- Press OK and select Antenna (A) or Antenna (B) using
   VOL or VOL ▶ button.
- Press CH ▼ button and press OK.
- Select the channels to be blocked by using the left/right navigation buttons and press **OK** to enter your selection.
   A maximum of four (4) channels can be blocked from each input. These channels will be blocked regardless of the ratings.

**Note:** To remove the channel # from the list, select the same channel # and press the **OK** button.

#### **Block Program**

This feature allows you block movies and television programs based on the MPAA and U.S. TV ratings system.

☐ MPAA - The MPAA uses the standard movie ratings to block the movies from being displayed.



#### **Procedure**

- In Lock menu, select Block Program and press OK button to display the sub-menu.
- Press OK button to enter the Mode field and select Off or On using ◀ VOL or VOL ▶ button. Press OK to enter the selection.
- Press CH ▼▲ buttons to highlight the desired rating level
- Press OK button to change the rating limit to "Viewable" or "Blocked".

**Note:** The NR rating is independent of other ratings. Placing a block on a specific age based rating level, this rating and any other more restrictive ratings will also be blocked.

Please see the following chart for the MPAA Ratings Description.

#### **U.S. Movies Rating Chart Description**

| NR    | Not Rated by MPAA.  |  |
|-------|---|--|
| G     | GENERAL AUDIENCES. All ages admitted.   |  |
| PG    | PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.          |  |
| PG-13 | PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13. |  |
| R     | RESTRICTED. Under 17 requires accompanying parent or adult guardian.                  |  |
| NC-17 | NO ONE 17 AND UNDER ADMITTED.   |  |
| Х     | ADULTS ONLY.  |  |

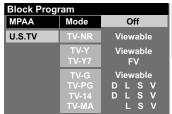
#### U.S. TV Rating

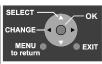
The TV Parental Guidelines has 7 levels of age-based ratings that can be selected. These 7 levels are split into 2 age-based groups: Youth Age-based Ratings and Guidance Age-based Ratings. Some of these age-based ratings can also have content-based ratings, denoted as D (Dialog), L (Language), S (Sex) and V (Violence). The table below shows the age-based ratings selection.

| Age-based<br>Group | Age-based<br>Ratings | Possible Content Selections   |
|--------------------|----------------------|---|
| NR (Not Rated)     | TV-NR                | Viewable     Blocked  |
| Youth              | TV - Y               | Viewable     Blocked  |
|                    | TV - Y7              | <ul><li>FV (Fantasy Violence)</li><li>Viewable</li><li>Blocked</li></ul>            |
| Guidance           | TV - G               | Viewable     Blocked  |
|                    | TV - PG              | D,L,S,V (all selected)     Any combination of D, L, S, V                            |
|                    | TV - 14              | <ul> <li>D, L S, V (all selected)</li> <li>Any combination of D, L, S, V</li> </ul> |
|                    | TV - MA              | L, S, V (all selected)     Any combination of L, S, V                               |

#### **Procedure**

- In Block Program, highlight U.S.TV and press OK button to enter the Mode.
- Press **OK** button to select Off or On and press **OK** button.
- Select the desired rating level using CH ▼ or CH ▲ buttons.
- Press OK button to choose "Viewable" (GREEN) or "Blocked" (RED).





#### Notes:

- The ratings such as TV-PG, TV-14 and TV-MA have content level ratings also. These contents levels can be individually blocked. Select the rating level, press VOL ► to highlight the desired content level and press OK button to block.
- The TV-NR rating is independent of other ratings.
- If TV-Y is blocked, both TV-Y and TV-Y7 will be blocked.
   However, if you select TV-Y7, the FV setting can be blocked or unblocked.

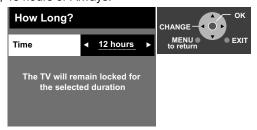
#### **U.S. TV Ratings Description**

| TV-NR | Not Rated.  |  |
|-------|---|--|
| TV-Y  | All Children. The themes and elements in this program are specifically designed for a very young audience including children from ages 2-6.                       |  |
| TV-Y7 | <b>Directed to older children.</b> Themes and elements in this program may include mild physical or comedic violence or may frighten children under the age of 7. |  |
| TV-G  | <b>General Audience.</b> It contains little or no violence, no strong language, and little or not sexual dialogue or situations.                                  |  |
| TV-PG | Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.                |  |
| TV-14 | Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong and explicit sexual content.                                    |  |
| TV-MA | Mature Audiences only. This program may contain mature themes, profane language, graphic violence and explicit sexual content.                                    |  |
| FV    | Fantasy/Cartoon Violence.   |  |
| V     | Violence  |  |
| S     | Sex   |  |
| L     | Offensive Language  |  |
| D     | Dialogue with sexual content.   |  |

#### Lock (Cont.)

#### How long?

This feature allows you lock the television input sources for specific period of time. Available selections are: 12 hours, 24 hours, 48 hours or Always.



Note:

If you select Always and you forget your password, the TV must be serviced by a qualified technician to clear the Lock setup.

#### **Password**

This screen lets you change your password. Enter a new 4 digit password using the numeric keypad and this code becomes your new password.

#### **Blocking Messages**

Various Blocking messages are displayed on-screen depending upon the type of blocking you have selected in the LOCK menu.

#### When Game Lock is selected

Following message is displayed when you attempt to select video inputs.

Video Inputs Locked.

#### When Channel Lock is selected:

The on-screen display will be displayed when you attempt to tune the channels that are locked in the Channel Lock menu.

Channel Locked.

Press OK to enter password.

#### When the rating level is exceeded

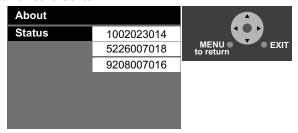
If the program you are viewing exceeds the set rating level, a rating level exceeded message is displayed. You are prompted to enter your password to view the blocked channel.

Rating Limit Exceeded. Press OK to enter password.

**Note:** Entering the password will override the block condition. However, the ratings selection will be retained.

#### **About Screen**

The About screen displays assorted information about the HDTV Projection Television. Please have this information when calling Customer Care Center.



#### Glossary and Acronyms

#### **ATSC (Advanced Television Systems Committee)**

Standardization body that developed the Digital Television Terrestrial formats.

#### **CableCARD™**

A PCMCIA-type card that is provided by the Cable operator.

#### DCF (Design rule for Camera File system)

Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

#### **FAT (File Allocation Table)**

FAT 12 or FAT 16: File systems used in formatting the memory cards.

#### **HDMI (High Definition Multimedia Interface)**

Interface that supports every uncompressed digital format as well as all existing multi-channel audio format on a single cable.

#### JPEG (Joint Photographic Experts Group)

A system used for compressing/decoding color still pictures.

#### **MPAA** (Motion Picture Association of America)

Guild governing rating assignments to movies.

#### **NTSC (National Television Systems Committee)**

Standardization body that developed the Analog Television Terrestrial formats.

#### **Password**

A four (4) digit code a user must provide in order to perform a function.

## **Troubleshooting Chart**

Before calling for assistance, determine the symptoms and follow suggested solutions.

| AUDIO          | VIDEO  | Solutions  |
|----------------|--|--|
| Noisy Audio    | Snowy Video  | Adjust Antenna Location and Connection.  |
| Normal Audio   | Multiple Image /<br>Color shift in picture   | Adjust Antenna Location and Connection. Check Antenna Lead-in Wire. Adjust Convergence (refer to pages 28 and 29).   |
| Noisy Audio    | Interference   | Move television from Electrical Appliances, Lights, Vehicles and Medical Equipment.  |
| No Audio       | Normal Video   | Increase Volume. Check Mute. Check television SPEAKERS on/off. (refer to pages 22 and 23) Change Channel.  |
| Noisy Audio    | No Video with Snow   | Set TV or Cable Mode Properly. Check Antenna Cables.   |
| No Audio       | No Video / No PIP  | Check Power Cord is Plugged into Active Outlet. Adjust Brightness and Audio Controls. Change Channel. Check Cable Connections. Program the Remote Control Again. Check Second Video Source Operation. Poor ATSC signal strength. Re-orient the ATSC antenna. |
| Audio Break up | Digitalization of image Image freeze up  | Re-orient the ATSC antenna.  Check signal meter (refer to page 27). If the signal is weak, add a signal booster to boost the signal strength.  |
| Normal Audio   | Picture shifts slightly (horizontally) when turned on, changing channels or within a duration of two (2) hours of viewing. | This is a normal condition to prevent image burn-in. This feature can be turned off. However, turning off this feature may result in image retention on screen. (refer pg. 28)   |
| Normal Audio   | No Color   | Adjust Color Settings. Change Channel.   |

| TROODLESHOOTING STATE   |   |  |  |
|---|---|--|--|
| AUDIO   | VIDEO                                   | Solutions  |  |
| Wrong Audio   | Normal Video                            | Check Audio is set to Stereo or Mono, not SAP.   |  |
| Normal Audio  | Black Box on Screen                     | Change CC (Closed Captioning) from Text Mode.  |  |
| When H  | IDMI signal is connected.               |  |  |
| No Audio  | No Video                                | Make sure that a PC is not connected to HDMI input. Rarely, the TV will not display video in HDMI input from devices with HDMI or DVI output due to bad communication between the TV and the devices. Should this happens, unplug the HDMI/DVI device and plug it back on. |  |
| Wrong Audio   | Normal Video                            | If using HDMI input, change the audio of the HDMI device to Linear PCM. Check the Audio setting for HDMI (refer to page 23). If there is functional problem with Digital Audio, please use Analog audio.   |  |
| •   | ttent Remote Control Operation          |  |  |
| Normal Audio  | Normal Video                            | Replace Remote Control batteries.  |  |
| Front control panel does not work, or remote control has no effect. |   | Press and hold the POWER button on the front panel for more than 5 seconds to reset the television.  |  |
| Normal Audio  | Normal Video PECT button has no effect. | Check Input Signal format. When receiving 1080i signal, ASPECT button does not work (see page 14).   |  |
| ASF   | PECT DULLOTI HAS NO EΠΈCT.              |  |  |

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ADVERTENCIA:

#### **ADVERTENCIA**

RIESGO DE SACUDIDAS ELECTRICAS. NO ABRIR.

ELÉCTRICAS, NO DEBERÁN QUITARSE NI LA CUBIERTA NI LA TAPA

POSTERIOR. NO HAY EN EL INTERIOR PIEZA ALGUNA QUE EL USUARIO TENGA QUE REPARAR. TODO SERVICIO HABRÁ DE BRINDARLO

A FIN DE REDUCIR EL RIESGO DE DESCARGAS





El propósito del relámpago con punta de flecha dentro de un triángulo es el de advertir al usuario de que existen piezas internas del producto que representan riesgo de que las personas reciban descargas eléctricas.



El propósito del signo de exclamación dentro de un triángulo es el de advertir al usuario de que los documentos que acompañan al aparato incluyen instrucciones importantes de funcionamiento y reparación.



El simbolo de insulación Clase II (un cuadro dentro de otro cuadro) indica que este producto a sido evaluado y probado para cumplir con los requisitos de insulación Clase II.

ADVERTENCIA: Con el objeto de prevenir el riesgo de incendio o de descarga eléctrica, este aparato no deberá verse expuesto a la lluvia ni a la humedad. No colocar ningún objeto lleno líquido, como envases, en este aparato.

#### **INSTRUCCIONES IMPORTANTES DE SEGURIDAD**

1. Lea completamente estas instrucciones.

PERSONAL DE REPARACIÓN CAPACITADO.

- 2. Guarde estas instrucciones.
- Preste atención a todas las advertencias.
- 4. Siga todas las instrucciones.
- 5. No utilice este aparto cerca de agua.
- 6. Limpie solamente con un trapo seco.
- 7. No obstruya ninguna abertura de ventilación. Instale conforme a las instrucciones del fabricante.
- 8. No instale cerca de fuentes generadoras de calor tales como radiadores, estufas o cualquier otro aparato (incluyendo amplificadores) que produzcan calor.
- 9. No ignore el propósito de seguridad de las clavijas polarizadas o de las clavijas aterrizadas. Una clavija polarizada tiene dos hojas, una más ancha que la otra. Una clavija aterrizada tiene dos hojas y un tercer conector. La hoja más ancha o el tercer conector son proporcionados para su seguridad. Si la clavija no entra en su contacto de CA, consulte a un electricista para que reemplace su contacto obsoleto.
- 10. Proteja el cable de CA de ser pisado o prensado. Ponga especial cuidado en los conectores y el extremo que llega al aparato.
- 11. Utilice solamente accesorios especificados por el fabricante.
- 12. Use únicamente con el mueble, mesa, cómoda o librero especificado por el fabricante o comprado con el aparato. Si mueve el mueble con el aparato sobre de el, tenga mucho cuidado de que el aparato no caiga sobre usted al empujar.



- 13. Desconecte el aparato durante tormentas eléctricas o si no se utilizará por un periodo largo de tiempo.
- 14. Para servicio, acuda con personal calificado. El servicio es necesario si el aparato ha sido dañado de cualquier manera, como el cable de CA o clavija dañada, si se ha derramado algún liquido o algún objeto ha caído dentro del aparato, el aparato ha sido expuesto a la lluvia o a la humedad, no opera normalmente o ha sido golpeado o tirado.

#### Información Importante

Aviso de la FCC:

Cualquier cambio o modificación a este receptor de TV no aprobado expresamente por Matsushita Electric Corporation of America podria provocar interferencia dañina, que nulificaría la autoridad del usuario para operar este equipo.

ADVERTENCIA: Como cualquier objeto pequeño, las tarjetas SD pueden ser tragadas por niños pequeños. No deje la tarjeta SD al alcance de los niños.

Este producto utiliza un tubo de rayos catódicos (TRC) así como otros **AVISO AMBIENTAL:** 

componentes que contienen plomo. El desecho de estos materiales puede estar regulado en su comunidad debido a consideraciones ambientales. Para información de desecho o reciclaje contacte a sus autoridades locales, o a la alianza de industrias electrónicas: <HTTP://WWW.EIAE.ORG.>

HIGH DEFINITION MULTIMEDIA INTERFACE

HDMI, el logo HDMI y la interfase multimedia de Alta Definición son marcas de fábrica o marcas registradas de HDMI Licensing LLC.

: El logo SD es una marca fábrica.

es una marca registrada de Cable Television Laboratories, Inc. **Cable**CARD™

**High Definition Sound** 

Bajo licencia de BBE Sound, Inc.

Licenciado de BBE Sound, Inc. sobre el numero USP4638258, 5510752 y 5736897. BBE y el simbolo de BBE son marcas registradas de BBE Sound.

El Sonido de Alta Definición BBE restaura la claridad y presencia para un meior entendimiento del habla v realismo musical.

Este producto contiene tecnología de protección de derechos que esta protegida por patentes de los EEUU y otros derechos de propiedad intelectual. El uso de esta tecnología de protección de derechos debe ser autorizada por Macrovision Corporation, y es para uso en casa y otros casos limitados a menos que sea autorizado por Macrovision. La ingeniería reversible y desensamble estan prohibidas.

Patentes de los EEUU. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 6,381,747; and 6,516,132.

Lea estas instrucciones completamente antes de operar la Televisión.

El contenido está sujeto a cambios sin previo aviso u obligación.

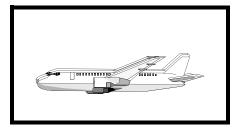
Derechos Reservados 2004 por Matsushita Electric Corporation of America.

Todos los Derechos Reservados. La copia y distribución sin autorización es violación de la ley.

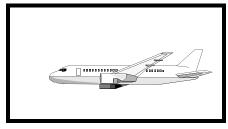
#### Información Importante (cont.)

#### Información sobre la Convergencia

En el televisor de proyección la imágen es formada al proyectar 3 imágenes de color distinto cada una (verde, rojo y azúl) en la pantalla. La convergencia se refiere a la alineación de las imágenes verde, roja y azul en la pantalla. Cuando estas imágenes están alineadas correctamente (convergen), usted ve una imágen nítida y de colores vivos. Algunas veces las 3 imágenes requieren alineación. Esto se debe al efecto del campo magnético de la tierra en los tubos de proyección. Normalmente no se requiere de ajuste una vez que el ajuste inicial en el centro de la pantalla se ha llevado a cabo. Es posible corregir los bordes de color en otras áreas de la pantalla usando el control remoto y siguiendo las instrucciones en pantalla del menú de AJUSTE. Por favor ajuste la convergencia de las imágenes al usar el televisor por primera vez. El siguiente diagráma muestra ejemplos de una imágen mal ajustada y una imágen correctamente ajustada. Favor de hacer referencia a las páginas 28 y 29 para el procedimiento en detalle de como ajustar la convergencia.



Imágen con mala convergencia



Imágen correctamente ajustada

**Nota:** Asegurese de mantener el televisor encendido por al menos 20 minutos previo al ajuste de convergencia descritos en las paginas 28 y 29.

## Información Importante Acerca Del Uso De Video Juegos, Computadoras, U Otros Tipos De Imágenes Fijas.

ADVERTENCIA: El marcado o retención de imágen en los tubos de proyección como resultado del uso de una imágen fija, no es un defecto de operación y como tal no está cubierto por la garantía.

El sistema de proyección de video esta diseñado para desplegar imágenes en movimiento constante en la pantalla. El uso constante de imágenes fijas tal como peliculas en formato letterbox en pantallas estándar (con barras arriba y abajo de la imágen), peliculas estándar no expandidas (4:3) en TV's de pantalla ancha (con barras laterales visibles a cada lado de la imágen), barras de reporte de la bolsa mercantil (barra con información en movimiento en la parte inferior de la pantalla), patrones de video juegos, marcadores deportivos fijos, logos de estación televisora, patrones de internet u otros patrones de tipo computadora deben limitarse.

El uso extendido de material de imágen fija puede causar daño permanente a los tubos de proyección, el cual se presenta como 'imágen fantasma" visible en la imágen normal. Este tipo de desgaste irreversible de los tubos de proyección puede limitarse mediante los siguientes pasos:

- Limite el tiempo de uso de material de imágen fija a no más del 15% del tiempo de uso total a la semana.
- · Apague la unidad cuando no se este usando.

#### Información de la FCC

Este equipo ha sido probado y cumple con el límite para un equipo digital clase B en acuerdo con las especificaciones en la parte 15 de las reglas de la FCC. Los límites se diseñan para proveer protección razonable contra interferencia de radio y televisión en una instalación residencial. Este equipo genera, utiliza y puede radiar energía de radiofrecuencia, y de no ser instalado y utilizado de acuerdo a las instrucciones, puede ocasionar interferencia nociva a comunicaciones de radio. Sin embargo, no existe garantía de que no ocurra interferencia en alguna instalación en particular.

Si este equipo causa interferencia a recepción de radio o televisión ( la cual puede ser determinada al encender y apagar el equipo), intente corregir la interferencia con una o más de las siguientes medidas.

- Re-oriente o re-ubique la antena receptora.
- Incremente el espacio entre el equipo y el receptor.
- Conecte el equipo en un enchufe de c.a. al cual el receptor no se encuentre conectado.
- Consulte al Vendedor o un técnico experimentado en radio/TV.

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**Nota:** La Información acerca de la garantía y centro de servicio se encuentra al final de este manual.

#### **Felicidades**

Su nuevo Televisor de Proyección de Alta Definición (PTV) se caracteriza por utilizar lo último en tecnología en calidad de imagen y sonido, cuenta con conexiones completas de Audio y Video para su Sistema de Teatro en Casa. Su televisión esta diseñada para brindarle muchos años de entretenimiento, fué sintonizada y comprobada en su totalidad en la fábrica para su mejor desempeño.

#### Registro del Usuario

El modelo y el número de serie de este producto se localizan en la parte posterior de este televisor. Deberá anotar el modelo y el número de serie en los espacios que se proveen a continuación y consérvelos permanentemente como comprobación de su compra. Esto le ayudará a identificarlo en caso de robo ó pérdida. Los consumidores en los Estados Unidos de América pueden registrar su producto en la siguiente dirección electrónica: www.prodreg.com/panasonic.

| Número de<br>Modelo |  |
|---------------------|--|
| Número de<br>Serie  |  |

#### Cuidado y Limpieza

#### Pantalla de Proyección (Apague el Televisor)

La pantalla de proyección es un sistema de lentes de alta precisión el cual contiene una pantalla protectora. La pantalla protectora es completamente lavable, con las siguientes precauciones:

- Use una solución de jabón o limpiador de vidrios y un paño limpio.
- NO UTILICE LIMPIADORES CORROSIVOS.
- No use detergente para lavar ropa ó jabón para lavaplatos automático.
- No use alcohol, amoniaco, o productos derivados del petróleo.
- Evite el exceso de humedad y frote hasta secar.
- Prevenga que la solución se derrame al interior del receptor.
- Evite golpear o rayar la pantalla.

**Precaución:** Evite rociar cualquier tipo de limpiadores directamente sobre la pantalla.

#### Gabinete y Control Remoto

- Para gabinetes y control remoto use un paño humedecido con agua o una solución detergente suave.
   Evite el exceso de humedad y frote hasta secar.
- No use benceno, diluyentes u otros productos a base de petróleo.

#### **Especificaciones**

Las especificaciones están sujetas a cambio sin previo aviso ni obligación alguna.

| g                                  |                              |  |
|------------------------------------|------------------------------|--|
| Fuente de Potencia                 |                              |  |
| PT-47WXD64 (4,1A)                  | 120V CA, 60Hz                |  |
| Capacidad de Canales ATSC/NTSC     | VHF/UHF 2-69, Cable-1-135    |  |
| Terminal de entrada HDMI           | Tipo A                       |  |
| Terminales de Salida Audio Digital | Fibra óptica Dolby* digital  |  |
| Componente Entrada de Video        | 75 Ohmios, Terminal tipo RCA |  |
| Terminales de Entrada de Vídeo     | 1Vp-p, 75 Ohmios, Estilo RCA |  |
| Terminales de Entrada de Audio     | 500mV RMS 47Kilo Ohmios      |  |
| Terminales de Salida de Video      | 1Vp-p, 75 Ohmios, Estilo RCA |  |
| Terminales de Salida de Audio      | 500mV RMS 4,7Kilo Ohmios     |  |
| Terminales de Entrada S-Vídeo      | Conector S-Vídeo (Y-C)       |  |

#### Tabla de Características

| MODELO   | PT-47WXD64    |
|--|---------------|
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| PHOTO VIEWER                                   | •             |
| MODULO DE CABLE DIGITAL<br>(CableCARD)         | •             |
| IMAGEN EN IMAGEN CON 2<br>SINTONIZADORES       | •             |
| 2RF  | •             |
| AJUSTE DE MAGNIFICACION<br>(TAMAÑO Y POSICION) | •             |
| PANTALLA PROTECTORA                            | •             |
| SUBTITULOS                                     | •             |
| CAPACIDAD DEL V-CHIP                           | •             |
| VELOCIDAD DEL BARRIDO<br>DIGITAL               | 1080i<br>540p |
| DOBLADOR DE LINEAS NTSC                        | 540p          |
| VIDEO NORM                                     | •             |
| AUDIO NORM                                     | •             |
| ESTEREO  | •             |
| SONIDO IA                                      | •             |
| BAJOS/BALANCE/AGUDOS                           | •             |
| SONIDO ENVOLVENTE                              | •             |
| BBE  | •             |
| ENTRADA HDMI/HDCP                              | •             |
| ENTRADA A/V<br>(POSTERIOR/DELANTERA)           | 4<br>(3/1)    |
| SALIDA AUDIO DIGITAL                           | •             |
| ENTRADA S-VHS                                  | •             |
| ENTRADAS DE VIDEO POR<br>COMPONENTE            | •             |
| o baio autorización de Laboratorios Dolby      | "D !! !!      |

<sup>\*</sup>Fabricado bajo autorización de Laboratorios Dolby. "Dolby" y el simbolo doble-D son marcas registradas de los Laboratorios Dolby.

#### Instalación

#### Ubicación de la Televisión

Esta unidad tiene como propósito ser usada como parte de un centro de entretenimiento. Consulte a su distribuidor para obtener opciones disponibles.

- Evite el exceso de luz solar u otras luces brillantes, incluyendo reflejos.
- Mantenga alejada la unidad del exceso de calor o humedad. La ventilación inadecuada puede causar fallas en componentes internos.
- La iluminación fluorescente puede reducir el rango de transmisión del control remoto.
- Evite el equipo magnético, incluyendo motores, ventiladores o altavoces externos.

#### Cables para la conexión por componentes

Cables blindados de audio y video deben usarse entre los componentes. Para obtener mejores resultados:

- · Use cable coaxial blindado de 75 ohmios.
- Use los conectores de entrada y salida apropiados, iguales a los de su componente.
- Evite el uso de cables largos para minimizar interferencia.

#### Cable de Suministro de Corriente Alterna

PRECAUCION: PARA PREVENIR UNA DESCARGA ELECTRICA, BUSQUE LA CLAVIJA ANCHA DEL ENCHUFE E INSERTELA POR COMPLETO EN LA RENDIJA ANCHA DE LA



Enchufe polarizado

TOMA DE CORRIENTE ALTERNA. NO USE ESTE ENCHUFE CON UN RECEPTACULO U OTRA TOMA DE CORRIENTE SALVO QUE LA CLAVIJA SE PUEDA INSERTAR POR COMPLETO PREVINIENDO QUE SE EXPONGA LA CLAVIJA.

PROTEJA EL CABLE DE CA DE SER PISADO, ENROLLADO, PLEGADO, TROZADO O PERFORADO, PARTICULARMENTE EN LOS CONECTORES Y EN LOS PUNTOS DONDE SALE DEL APARATO.

#### Conexión de Cable / Antena

Para una recepción adecuada, se requiere una conexión de cable o de antena.

Cable de Entrada de la Compañía de Cable

#### Conexión de cable

Conecte el cable suministrado por su compañía local de cable a la conexión



ANT A en la parte posterior de la televisión. Seleccione la modalidad de Cable en el menú Setup bajo Program CH.

75 Ohmios VHF/UHF en la parte posterior de la TV

#### Conexión de Antena

Nota:

- Para una recepción adecuada de canales VHF/ UHF, se requiere de una antena externa. Para la mejor recepción, se recomienda una antena en el exterior.
- Conecte el cable de la antena a la conexión ANT A en la parte posterior de la televisión.
   Seleccione la modalidad de Antenna en el menú Input Setup bajo Program CH en el menú Setup.

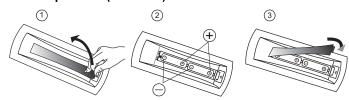




La Modalidad de Cable está predispuesta de fábrica. Usuarios de antena deberán cambiar a modalidad de Antena en el menú de Setup. Si tiene cable y antena, el cable debe ser conectado al conector ANT A.

#### Instalación de Pilas en el Control Remoto

Use dos pilas AA (incluidas):



#### **Procedimiento**

- Remueva la tapa de la batería presionando el seguro mientras leventa la tapa al mismo tiempo.
- Instale las pilas igualando las marcas (+) y (-) de la polaridad.
- Coloque la tapa en la ranura y presione hasta que esta cierre

**Nota:** Instalación incorrecta puede causar derrame y corrosión que dañará al control remoto.

#### **Precauciones**

- Reemplaze las pilas por pares.
- No mezcle tipos de pilas (carbono de zinc con alcalina).
- No intente cargar, hacer corto circuito, desarmár, calentar o quemar las pilas.
- El reemplazo de baterías es necesario cuando el control remoto funciona esporádicamente o deja de operar el aparato seleccionado.

#### First Time Setup (Programación Inicial)

Para su conveniencia, el menú de auto programación será desplegado en pantalla cuando el set sea encendido por primera vez. De ser necesario, siga los menús y los procedimientos para ajustar las caracteristicas.

#### Programación de la entrada de RF

Para seleccionar la modalidad de TV (antena) o CABLE dependiendo de la fuente de la señal.

#### **Procedimiento**

- Presione VOL para seleccionar Cable only, Cable/ Antenna ó Antenna only.
- Presione el botón de OK para subrayar su selección.



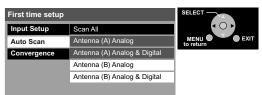
 Cuando la siguiente pantalla es desplegada, presione
 OK para iniciar la auto busqueda. Todos los canales disponibles serán programados en memoría.

#### Auto Scan (BUSQUEDA AUTOMATICA)

Para programar automáticamente todos los canales con señal.

#### **Procedimiento**

 Presione OK para programar automáticamente todos los canales con señal.



 Una vez terminada la programación, el televisor sintonizará el primer canal encontrado durante la busqueda automática.

#### Notas:

- Si el botón EXIT es presionado en cualquier momento durante la busqueda, el menú de Programación Inicial será cancelado y el televisor sintonizará el canal 2 análogo en la ANTENNA (A).
- Si el DCM (Modulo de Cable Digital) esta conectado durante la Programación Inicial y Antenna (A) esta en Cable, la Antenna (A) no será buscada ya que el DCM proveera el mapa de canales.

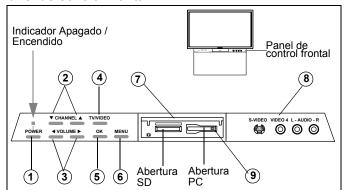
#### Convergence (Convergencia)

Este menú le permite ajustar la alineación del TRC verde y la convergencia del centro. Siga las instrucciones en pantalla para realizar el ajuste de convergencia. Una vez hecho el ajuste de convergencia presione **EXIT** para salir del menú.



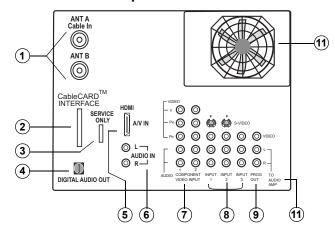
#### Vista Frontal y Posterior del Televisor de Proyección de Alta Definición

#### Panel de control frontal



| Botón                   | Descripción   |  |
|-------------------------|---|--|
|                         | Apagado/Encendido   |  |
| 1 POWER                 | Nota: En caso de que el panel de control y el control remoto no funcionen, presione y mantenga presionado el botón de POWER por más de 5 segundos y el set se reinicializará. |  |
| ② ▼CH and CH▲           | Selecciona canal siguiente o previo, navegación arriba/abajo en los menús.  |  |
| ③ <b>◀</b> VOL and VOL▶ | Aumenta o disminuye el volúmen, navega izquierda/derecha en los menús, ajusta la función seleccionada en el menú.   |  |
| 4 TV/VIDEO              | Selecciona la señal de entrada.   |  |
| <b>5</b> ок             | Confirma el canal seleccionado, presione para aceptar la elección del menú o submenú.   |  |
| 6 MENU                  | Muestra o elimina el menú o regresa un nivel en los menús.  |  |
| 7 Photo Viewer™         | Le permite ver las imagenes JPEG<br>grabadas en las tarjetas de memoria de<br>una cámara digital.   |  |
| 8 VIDEO 4               | Entradas análogas para aparátos externos.   |  |
| 9 Botón Eject           | Presione este botón para expulsar la tarjeta de memoria.  |  |

#### Panel de conectores posteriores



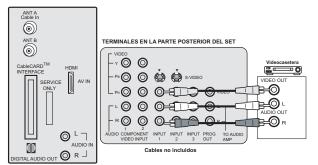
| Refere ncia | Descripción   |  |
|-------------|---|--|
| 1           | Entradas de antena ANT A - Conecte una antena terrestre o de cable a esta entrada para recibir canales digitales. ANT B - Si tiene ambas antenas, terrestre y cable, conecte la antena terrestre a ANT B. |  |
| 2           | CableCARD™ INTERFACE Introduzca el módulo CableCARD (Módulo de Cable Digital) de la compañía de cable para recibir servicio digital "premium".  |  |
| 3           | SERVICE ONLY Conector usado por el técnico de servicio para actualizar el programa.   |  |
| 4           | DIGITAL AUDIO OUT Salida óptica de sonido envolvente Dolby Digital 5.1.   |  |
| 5           | HDMI (Interfase Multimedia de Alta Definición)<br>Entrada que acepta señal digital sin comprimir y señal de<br>audio digital multicanal.  |  |
| 6           | AUDIO IN  Use estos conectores de audio cuando aparatos con DVI son conectados al conector HDMI usando el adaptador DVI a HDMI.   |  |
| 7           | COMPONENT VIDEO (Y-P <sub>B</sub> -P <sub>R</sub> ) INPUTS Use estos conectores para conectar aparatos como un reproductor de DVD o un Set Top Box.   |  |
| 8           | INPUTS 1, 2 y 3 Entradas Compuestas para conectar una videocasetera u otros aparatos.   |  |
| 9           | PROG OUT Conectores de salida de audio fijo y video compuesto.  |  |
| 10          | TO AUDIO AMP Terminales de salida de audio analogo.   |  |
| 11)         | Abanico de enfriamiento   |  |

#### Conexiones de Equipo Opcional

**Nota:** El control remoto debe de ser programando con los codigos suministrados para operar equipo opcional.

#### Conexión de la Videocasetera

Siga este diagrama cuando conecte en su televisión, solamente la videocasetera.



#### Para ver un vídeo

#### **Procedimiento**

- Presione el botón de TV/VIDEO en el control remoto para seleccionar la entrada de vídeo (VIDEO 1, VIDEO 2, etc.) que está conectada a su videocasetera.
- Comience el vídeo.

#### Conexión del Módulo de CableCARD

Este módulo le permite sintonizar canales digitales y de alta definición a traves de su antena de cable. Consulte a su compañía de cable para la disponibilidad de este módulo.

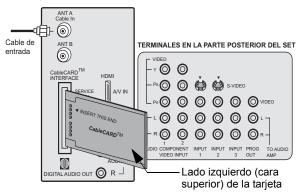
**Nota:** Una suscripción a cable digital es requerida . (refierase a la página 29)

#### **Procedimiento**

- Conecte la antena del cable al conector ANT A/Cable In en la parte posterior del set.
- Inserte el módulo CableCARD™ al conector CableCARD en la parte posterior del set.

#### Notas:

- El lado izquierdo equivale a la parte superior del módulo DCM.
- No introduzca una tarjeta PCMCIA en el conector CableCARD INTERFACE.
- Seleccione el modo de Cable en Antenna (A) en el menú Input Setup.
- · Siga las instrucciones en pantalla



Nota:

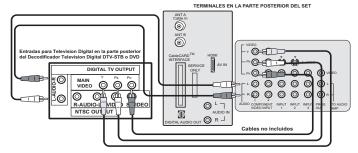
Si los botones del panel de control frontal o del control remoto dejar de funcionar cuando utiliza el módulo de CableCARD, desconecte el cable de CA del televisor, vuelvalo a conectar y pruebe de nuevo. Si el problema persiste, consulte al Centro de Atención a Clientes de Panasonic.

#### Conexión del Decodificador de Televisión Digital (DTV-STB) ó DVD

Esta televisión tiene la capacidad de proyectar imágenes en formato 1080i, 480p y 480i Televisión Digital (DTV) utilizando un receptor-decodificador (STB). Para ver programación de Televisión Digital, el STB debe estar conectado a las entradas de video compuesto (Y, P<sub>B</sub>, P<sub>R</sub>) de la televisión. Debe haber una señal de DTV disponible en su área. Seleccione el formato del STB a 1080i o 480p.

Esta TV utiliza un doblador de barrido progresivo, el cual barre la imágen de formato NTSC de manera progresiva. Esto le permite no ver las delgadas líneas negras (efecto de persiana) que va relacionado con la imágenes entrelazadas.

Utilice este diagrama para conectar el decodificador de Televisión Digital Panasonic (DTV-STB) ó DVD a su Televisor.



El televisor tiene dos grupos de entradas de video compuesto, cada grupo tiene tres entradas: Y, P<sub>B</sub> y P<sub>R</sub>. Los entradas separadas para las señales compuestas de color, proveen una mejor separación de luminancia y color.

#### **Panel de Control Frontal**

El panel de control frontal puede ser usado para accesar el menú ó cambiar el modo de video cuando no se disponga del control remoto.

El indicador de APAGADO/ENCENDIDO (rojo) estará prendido cuando e está encendido.



Abra la puerta del panel frontal de la PTV para usar estas conexiones para su equipo opcional (videocámara, VCR u otros componentes de vídeo). Seleccione el modo de entrada video 4 presionanado el botón TV/VIDEO.

#### **Procedimiento**

- Conecte su equipo a las conexiones Audio/Vídeo en la parte frontal o posterior de la televisión.
- Presione TV/VIDEO para seleccionar la entrada de VIDEO 4.
- Opere el equipo como se instruye en el manual del equipo.

#### Conexión de entrada HDMI

#### **Sobre HDMI**

HDMI es la primera interfase de A/V para electrónica de consumidor completamente digital que soporta todos los formatos de video estándar, mejorados y de alta definición asi como todos los formatos de audio multicanal existentes. Un conector soporta la información de video y de audio. La entrada HDMI/HDCP<sup>1</sup> puede ser conectada a un dispositivo que cumpla con la norma EIA/CEA 861<sup>2</sup>, tal como un set top box o reproductor de DVD equipado con un conector de salida HDMI o DVI. Al conectar una fuente de imagen de alta definición con protección digital de copia con alto ancho de banda (HDCP) a la terminal HDMI de esta unidad, podrá ver en pantalla imagenes de alta definición en su forma digital. La terminal de entrada HDMI no es para conectarse con una computadora personal. Este PTV es compatible con los formatos 1080i, 480p y 480i. Seleccione la salida del dispositivo conectado a uno de estos formatos.

#### Notas:

- HDMI/HDCP = Interfase Multimedia de Alta Definición / Protección Digital de Copia con Alto Ancho de Banda.
- 2. Los perfiles EIA//CEA-861 cubre perfiles para la transmision de video digital sin compresión incluyendo contenido digital de protección de alto ancho de banda.

#### Formatos compatible

Este PTV es compatible con los siguientes formatos. Ajuste el aparato conectodo a uno de los siguientes formatos.

#### Señal de video

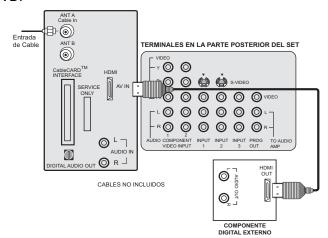
| Formato     | Número de puntos         | Frecuencia de barrido vertical (Hz) |
|-------------|--------------------------|-------------------------------------|
| 1080i       | 1920 x 1080i             | 59.94 / 60                          |
| 540p (480p) | 720 x 480p<br>640 x 480p | 59.94 / 60<br>59.94 / 60            |
| 540p (480i) | 720 x 480i               | 59.94 / 60                          |

#### Señal de Audio

Cuando audio digital es incluido en la conexión HDMI, las frecuencias compatibles son 48 KHz / 44.1Khz / 32 Khz.

#### Diagrama de conexión

Siga el diagrama mostrado en la parte inferior para conectar el PTV a un set top box o a un reproductor de DVD.



\*El conector en la PTV es HDMI tipo A.

#### **Procedimiento**

- Presione el botón TV/VIDEO en el control remoto para seleccionar la entrada HDMI. El conector en este PTV es HDMI tipo A.
- Conecte la salida HDMI del set top box o reproductor de DVD a la entrada HDMI IN en la parte posterior del PTV.
- Si el dispositivo externo solo tiene salida DVI, utilice un adaptador\*3 de DVI a HDMI para conectarse al conector HDMI en el PTV. Además, conecte la señal de salida de audio del dispositivo externo (set top box o reproductor de DVD) a los conectores de Audio In\*4 localizados abajo del conector HDMI.
- Si no puede ver la imagen por que su Set Top Box no tiene una terminal de salida digital, use la entrada de video por componentes (o el conector de S-Video o Video). En este caso, la imagen vista será de señal análoga.

#### Notas:

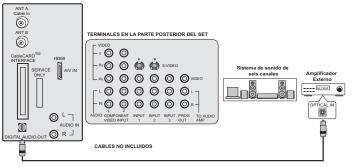
- \*3. El cable convertidor HDMI-DVI (TY-SCH03DH) está disponible en la página de internet de Panasonic: www.panasonic.com.
- \*4. Vea las páginas 22 y 23 para los detalles de ajuste de audio.

## Digital Audio Out Connection (Conexión de salida de audio digital)

Utilice el diagrama mostrado en la parte inferior para conectar la salida de audio digital de su Televisor de Proyección HDTV a un decodificador Dolby Digital.

#### Digital Audio Out (Salida de audio digital)

El sonido envolvente Dolby Digital de 5.1 canales le permite tener sonido de calidad digital. Dolby Digital provee cinco canales discretos de ancho de banda completo para frontal izquierdo, frontal derecho, centro, envolvente izquierdo y envolvente derecho, más un canal de sub-graves LFE (Efecto de Baja Frecuencia). Para una disfrutar de un sonido de teatro en casa completo, un decodificador Dolby Digital externo y un amplificador multicanal deben ser conectados al conector Digital Audio Out de su PTV.



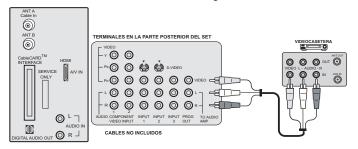
#### **Procedimiento**

 Conecte el cable digital de audio del conector Digital Audio Out de su PTV al conector Digital Audio In de su decodificador Dolby Digital.

**Nota:** Cuando un canal ATSC es seleccionado, la salida del conector Digital Audio Out será Dolby Digital. Pero si el canal seleccionado es NTSC, la salida será PCM.

## Conexión de Salida del Programa (PROG OUT)

Para visualizar en la Televisión el video y el audio con una videocasetera. Un monitor externo también puede ser conectado a las terminales de PROG OUT y TO AUDIO AMP. Conecte la videocasetera como se muestra en la figura.



#### **Procedimiento**

- Conecte la videocasetera a las terminales PROG OUT y TO AUDIO AMP R/L.
- El desplegado de terminal PROG OUT es el mismo que el desplegado en pantalla.
- Véase el manual de equipo opcional para instrucciones acerca del grabado.

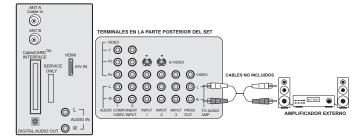
#### Notas:

- Este PTV contiene salidas de video y audio con el propósito de grabar programación de la televisión a una videocasetera. Debido a las restricciones de licencias, si un aparato (STB, DVD, etc.) es conectado al conector HDMI del PTV, la salida de audio y video no es permitida.
- La señal de Program Out no estará disponible cuando la imagen principal sea de la entrada por componentes.
- La señal Program Out estará disponible cuando reciba un canal digital. Pero todos los formatos digitales serán convertidos a video NTSC compuesto.
- Cuando reciba una canal digitales o análogos y los subtítulos análogos o digitales estén activados, la salida del conector de Program Out tendrá subtitulos en la imágen de video. Si los subtítulos están desactivados, solo información de subtitulos análogos será transferida.
- Algunas salidas de contenido de programa de los conectores de Program Out pueden contener señal de Macrovision, previniendo así que una videocasetera puede grabar esta señal.

## Conexión del Amplificador de Sonido (Analogo)

Conecte a la entrada de audio de un amplificador externo para escuchar el sonido en sistema estéreo.

**Nota:** Las terminales TO AUDIO AMP no pueden ser usadas directamente para bocinas externas.



#### Ajustes de Sonido (Audio)

- Seleccione ALTAVOCES Off en el menú de SONIDO (AUDIO).
- Ajuste el volúmen del amplificador al nivel deseado.

## **ESPAÑOL**

#### Operación de IDI y Pantalla de SPLIT Operación de IDI

Esta Televisión incluye una característica de sintonizador dual para Imagen en Imagen (IDI). Esto permite ver dos (2) canales en vivo al mismo tiempo, ya sea con o sin una fuente de vídeo externa (VCR).

**Nota:** Solo la programación análoga de la Antena (A) y las entradas de video pueden ser vistas en el Marco IDI /SPLIT.

#### **Procedimiento**

- Conecte el cable de la antena a la entrada ANT A en la parte posterior de televisor.
  - PIP
- Presione para desplegar el marco IDI.
- Presione los botones
   PIP CH
   DVD/VCR CH mientras el marco

IDI esta desplegado para seleccionar los canales.

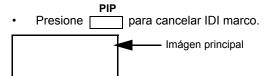
Escoja canales para la Imagen Principal presionando



o usando el teclado numérico.

- Presione para intercambiar la imágen principal con la imágen dentro del marco IDI.
- Presione para ver la información de fuentes de ambos imágenes

Marco IDI



Nota: El Audio es sólo de la Imagen Principal.

#### **Operación de SPLIT**

Esta función permite ver 2 canales diferentes, uno al lado del otro, con o sin una fuente de video externa. El audio es de la imagen principal unicamente (lado izquierdo).

#### **Procedimiento**

#### SPLI

- Presione para desplegar la imágen SPLIT.
- Escoja canales para la Imágen SPLIT presionando

PIP CH DVD/VCR CH

Escoja canales para la Imagen Principal presionando



o usando el teclado numérico.

SPI IT

- Presione para intercambiar la Imágen SPLIT con la Imagen Principal derecha.
- Presione



para verla información imágenes.

SPLIT

Presione para cancelar la pantalla Split.

Nota:

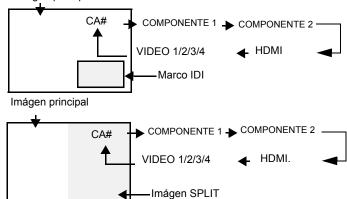
La IDI o SPLIT no pueden mostrar un canal digital. Puede ver el canal digital como la imágen principal y un canal análogo en la IDI ó SPLIT, ó canales análogos en ambos. La función SWAP funciona sólo cuando la imágen principal y la IDI ó SPLIT son canales análogos o señal de entrada de video.

## **Botones de la Operación de IDI y Pantalla de SPLIT**

#### **Botón TV/VIDEO**

Presione quando la IDI o el Split están desplegados para seleccionar la entra de video deseada.

Imágen principal



#### Botón Search (IDI y Split)

Esta función permite hacer una busqueda de todos los canales análogos disponibles.

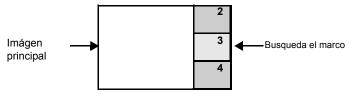
Presione el botón \_\_\_\_\_ o \_\_\_\_ para desplegar el marco de la IDI o la pantalla Split.

#### SEARCH OPEN/CLOSE

Presione para desplegar los marcos de busqueda.

**Nota:** Cuando la imágen principal es digital ATSC, la busqueda no es posible. La caraterística de busqueda solo funciona con canales análogos.

- Presione SEARCH botón de nuevo para detener la función de busqueda. El canal de la IDI ó Split será el último marco activo.



#### Botón Move (sólo IDI)

Esta función es utilizada para mover el marco de la IDI a una de las cuatro esquinas.

#### **Procedimiento**

Presione para desplegar el marco de la IDI.

# • Presione para posicionar el marco de la IDI en la esquina deseada. • PIP • Presione para cancelar IDI marco.

Marco IDI

#### **Botónes PIP MIN y PIP MAX**

Cuando el marco de la IDI es desplegedo, prisione el botón PIP MIN ó PIP MAX para variar el tamaño del marco.

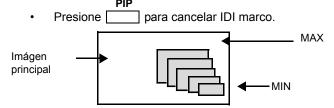
#### **Procedimiento**

principal

Presione para desplegar el marco de la IDI.

PIP MIN PIP MIN

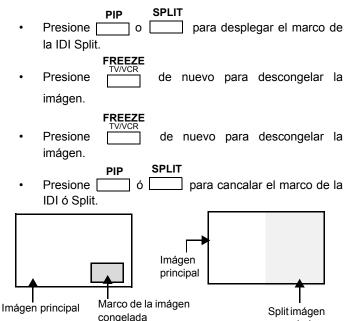
Presione o e para ajustar el tamaño del marco.



#### Botón Freeze (IDI y Split)

Esta función es utilizada para congelar la imágen en la IDI o Split.

#### **Procedimiento**



El Audio es sólo de la Imagen Principal.

congelada

#### Función de congelamiento de imagen principal

Esta función se usa para congelar la imagen principal y desplegarla in la IDI o en SPLIT.

#### **Procedimiento**

- Para congelar la imagen principal, presione mientras la IDI o SPLIT no esten desplegados.
- La imagen principal congelada aparecera en la IDI o en SPLIT, dependiendo de la opción seleccionada en el menu FREEZE localizado dentro de Imagen Otros AJ. (refierase a la pagina 20).

**FREEZE** 

• presione \_\_\_\_\_ nuevamente para cancelar la congelación de imagen.

**Nota:** Mientras la imagen congelada este desplegada, solo el boton MOVE esta activo para IDI, cualquier otro botón para IDI o SPLIT no tendra effecto (ver tabla ).

#### Tabla operacional de los botones en modo IDI ó SPLIT

Esta tabla muestra los botones que están activos cuando se encuentra en modo IDI ó SPLIT.

| Botónes MODO IDI   |  | MODO SPLIT   | MODO<br>IMÁGEN<br>PRINICIPAL |  |
|--|--|--|------------------------------|--|
| PIP MIN  | Tamaño pequeño   | No funciona  | No funciona                  |  |
| PIP MAX  | Tamaño grande  | No funciona  | No funciona                  |  |
| FREEZE   | Congela marcos<br>IDI  | Congela<br>marcos IDI  | Desplegar o<br>Suprimir      |  |
| PIP CH   | Cambiar Canales<br>de IDI  | Cambiar<br>Canales de<br>SPLIT   | No funciona                  |  |
| SEARCH  Desplegar marcos de busqued (no disponible cuando la imagen principal digital) |  | Desplegar marcos de busqueda (no disponible cuando la imagen principal es digital)               |                              |  |
| PIP Suprimir marcos de IDI   |  | Desplegar<br>marcos de IDI   | No funciona                  |  |
| SPLIT Desplegar marcos de SPLIT  |  | Suprimir<br>marcos de<br>SPLIT   | No funciona                  |  |
| MOVE Mueve marcos  |  | No funciona  | Mueve marcos<br>IDI          |  |
| SWAP   | Intercambiar con imágen principal (no disponible cuando la imagen principal es un canal digital) | Intercambiar con imágen principal (no disponible cuando la imagen principal es un canal digital) | No funciona                  |  |

Nota:

#### Funciones especiales del Televisor de Proyección de Alta Definición

#### Sintonización de canales y programas

La sintonización de canales y programas en televisión digital es distinta de la televisión actual. En DTV (Televisión Digital), multiples programas pueden existir en un solo canal de 6MHZ. Estos canales se comportan como sub-canales dentro de un solo canal. Cuando sintonize un canal digital, el televisor de proyección de alta definición tambien sintonizará un programa. El televisor de proyección de alta definición le indicará el canal y el programa por medio de la barra de información del canal.

**Nota:** Para seleccionar canales adecuadamente, debe de llevarse a cabo la auto programación (ver página 25).

#### Sintonizando canales digitales y análogos

Puede sintonizar los canales digitales y análogos de las siguientes maneras:

- □ Canal arriba/abajo (botón CH ▲ o CH ▼) Sintoniza el canal o programa siguiente o previo. Esta manera depende del modo de sintonización (ver pág. 21) que seleccione en el menú Channel.
- Sintonización rápida (R-TUNE) Cambia entre los dos últimos canales o programas.

#### Método de sintonización directa

Siga el procedimiento de abajo para introducir el directamente el número de canal utilizando el teclado numérico del control remoto.

#### **Procedimiento**

- Presione los botones del telado numérico del control remoto para introducir el número del canal. Presione OK.
- Si desea sintonizar un canal digital y su canal contiene más de un programa, presione el botón 
   e introduzca el número del programa (1, 2, 3 etc.) usindo el teclado numérico. Presione OK. El siguiente es un ejemplo de como sintonizar el canal 15-1.

Ejemplo de sintonización directa

| Ejempio de Sintomzación directa |                     |                                     |
|---------------------------------|---------------------|-------------------------------------|
| Paso                            | Acción              | Barra de<br>información de<br>canal |
| 1                               | Presione 1          | 1                                   |
| 2                               | Presione 5          | 15                                  |
| 3                               | Presione $\bigcirc$ | 15-                                 |
| 4                               | Presione 1          | 15-1                                |
| 5                               | Presione <b>OK</b>  | 15-1                                |

El televisor de proyección de alta definición sintonizará el canal 15-1.

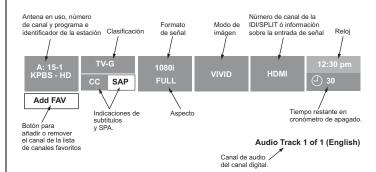
#### Barra de información de canal: minimizada

La barra de información de canal minimizada mostrará la antena utlizada, el número de canal, y la identificación de la estación (si esta disponible).



#### Barra de información de canal: maximizada

Presione **RECALL** para mostrar la barra de información de canal maximizada. Mientras la barra de información de canal esta desplegada, puede adicionar o remover el canal a la lista de canales favoritos.



#### Función de agregar / remover Favoritos

Esta función le permite agregar o remover canales a la lista de canales favoritos.

#### **Procedimiento**

- Sintonize el canal deseado.
- Presione RECALL para mostrar la barra de información de canal.
- Presione **OK** ejecutar su selección.

## Sintonización forzada por el Sistema de Alerta de Emergencia (EAS)

Si tiene un módulo CableCARD instalado, el sistema multiple de dueño/operador de cable (MSO) podria proveer un mensaje del sistema de alerta de emergencia. Estos mensajes son para informar al público en general de situaciones de emergencia locales o nacionales de importancia. En caso de recibir uno de estos mensajes, el televisor de proyección de alta definición sintonizará inmediatamente el canal con el mensaje EAS. Si el canal a sido bloqueado usando el control de bloqueo del televisor, este control tiene prioridad sobre la sintonización forzada.

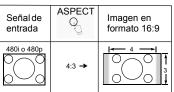
#### Botones especiales del control remoto

#### **Botón ASPECT**

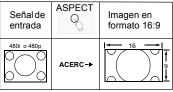
Opciones de despliegue de imagen según la señal de entrada

| Señal de<br>entrada | Formato en pantala  | Opciones para<br>botón ASPECT                     |
|---------------------|---|---|
| 1080i               | Solo 16:9   | Sin opción  |
| 480p (16:9)         | Default a 16:9  | 4:3, Comp o Acerc<br>(Ver sig. columna)           |
| 480p (4:3)          | Default a modo COMP. <b>Nota:</b> La imagen es estimada  Horizontalmente. | 4:3, Comp o Acerc<br>(Ver sig. columna)           |
| 480i                | Default a modo JUSTO  | 4:3, Comp, Justo o<br>Acerc<br>(Ver sig. columna) |

El botón **ASPECT** le permite seleccionar uno de los cuatro modos de imagen, dependiendo del formato de la señal recibida y preferencias personales. El botón **ASPECT** le permite seleccionar uno de los cuatro modos de imagen, dependiendo del formato de la señal recibida y preferencias personales.



Esta opción despliega una imagen 4:3 a su tamaño estandar 4:3 con barras laterales gris. No es recomendado para ver imagenes 4:3, puede causar imagen permanente en la pantalla.

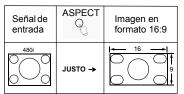


Amplia la imagen 4:3 unifomemente (ancho y alto).

Nota: Si el menú es desplegado mientras en modo Zoom, el aspecto cambiará a modo Comp para desplegar el menú completo.

| Señal de<br>entrada | ASPECT | Imagen en<br>formato 16:9 |
|---------------------|--------|---------------------------|
| 480i o 480p         | COMP → | 16 —                      |

Esta opción despliega una imagen en pantalla completa. (recomendada para images Anamorficas).



Esta opción estira la parte izquierda y derecha de una imagen 4:3 al tamaño de pantalla. El centro de la pantall tendra corrección de aspecto. El tamaño de la imagen depende del tamaño original. (recomendado para uso normal.)

#### **Botón BBE**

Presione este botón para activar la función BBE.

#### **Botón SAP**

Presione este botón para seleccionar el siguiente canal de audio (si esta disponible) cuando reciba una canal digital.

#### Audio Track 1 of 1 (English)

En modo análogo, presione este botón para seleccionar entre los distintos modos de audio. Por ejemplo:

 Si recibe STEREO, SAP y MONO o recibe STEREO y MONO solamente, al presionar el botón SAP, el audio cambiará de la siguiente manera:

FSTEREO → SAP → MONO —

#### **Botón PROG**

**PROG** 

Cuando sintonize un canal digital, presione el botón para introducir el número menor en un canal de número compuesto.

#### **Botón MENU**

Presione para mostrar el menú principal o para regresar un paso en el menú.

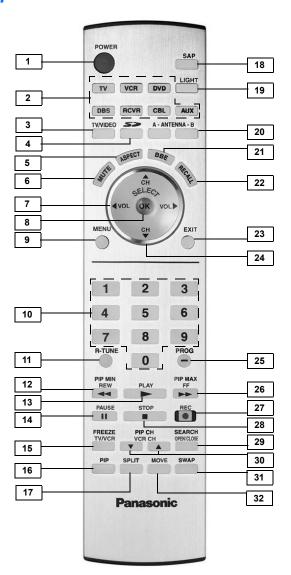
#### **Botón RECALL**

Presione este botón para mostrar o quitar el encabezado de canales. Mientras el encabezado este desplegado, usted puede agregar o quitar canales a su lista de canales favoritos.

#### **Botón R-TUNE**

Presione para sintonizar el canal visto anteriormente, Photo Viewer o entradas.

#### Operación del Control Remoto



| NUMERO<br>DE BOTON | DESCRIPCIÓN   |
|--------------------|---|
|                    | Presione para ENCENDER o APAGAR   |
| 1                  | Nota: El indicador ON/OFF estará encendido (rojo) cuando el set este encendido.   |
| 2                  | Presione para seleccionar el modo del control remoto.   |
| 3                  | Presione para seleccionar la modalidad de televisión o video.   |
| 4                  | Presione para accesar el Photo Viewer.<br>Dentro del Photo Viewer presione para accesar el<br>menú del Photo Viewer.  |
| 5                  | Seleccione el tamaño de la imagen (aspecto) para igualarlo al formato de la programación. Dentro del Photo Viewer para cambiar el aspecto de la imagen en pantalla. |
| 6                  | Presione para silenciar el sonido. Presione para mostrar y remover el CC (Closed Caption).  |
| 7                  | Presione para ajustar el nivel del audio de la TV y navegar en los menús.   |
| 8                  | Presione para entrar al menú.   |

| NUMERO DE<br>BOTON | DESCRIPCIÓN   |
|--------------------|---|
| 9                  | Presione para mostrar el menú principal o regresar un paso en los menús.  |
| 10                 | Presione el teclado numérico para seleccionar<br>cualquier canal o introducir caracteres<br>alfanuméricos en los menús.   |
| 11                 | Presione para regresar al canal previamente visto o modo de video.  |
| 12                 | PIP MIN - En modo TV, presione para reducir el<br>tamaño del marco IDI.<br>REW - En modo VCR o DVD, presione para<br>regresar.  |
| 13                 | En modo VCR o DVD, presione para tocar.   |
| 14                 | En modo VCR o DVD, presione para pausar.  |
| 15                 | FREEZE - En modo TV, presione para<br>congelar la imagen en el marco IDI o SPLIT.<br>TV/VCR - Presione para seleccionar entre<br>modo TV o VCR en su videocasetera.   |
| 16                 | Presione para desplegar o cancelar el marco IDI.  |
| 17                 | Presione para desplegar o cancelar la pantalla SPLIT.   |
| 18                 | Presione para accesar los modos de audio (Stereo, SAP o Mono).  |
| 19                 | Presione para iluminar los bones del control remoto.  |
| 20                 | Presione para seleccionar la entrada de antena de RF (A o B).   |
| 21                 | Presione para encender o apagar.  |
| 22                 | Presione para desplegar o cancelar la información de canal.   |
| 23                 | Presione para salir del menú.   |
| 24                 | Presione para seleccionar el siguiente canal y navegar en los menús.  |
| 25                 | Presione para delimitar entre los canales mayores y menores.  |
| 26                 | PIP MAX - Presione el botón para incrementar el<br>tamaño del marco IDI.<br>FF - En modo VCR o DVD, presione para<br>adelantar.   |
| 27                 | En modo VCR, presione para grabar.  |
| 28                 | En modo VCR o DVD, presione para detener.   |
| 29                 | SEARCH - Presione para explorar todos los<br>canales disponibles en los marcos de<br>busqueda. Presione de nuevo para detener<br>la función de busqueda.<br>OPEN/CLOSE - Presione para abrir o cerrar<br>la bandeja del reproductor de DVD. |
| 30                 | Presione para cambiar canales el IDI o la videocasetera.  |
| 31                 | Presione para intercambiar la imágen IDI/<br>SPLIT con la imagen Principal.   |
| 32                 | Esta función es utilizada para mover el marco de la IDI a una de las cuatro esquinas.   |
|                    |   |

#### Operación de Componentes con el control remoto

Nota: Refierase a la página 18 para procedimientos de programación

del Control remoto.

#### Operación de una Videocasetera

Programe el control remoto para utilizar con la Videocasetera.

| PARA HACER ESTO  | OPRIMA                      |
|--|-----------------------------|
| Encender/Apagar  | POWER                       |
| Seleccionar modo de entrada<br>de TV para la Videocasetera | TV/VIDEO                    |
| Cambiar canales arriba/abajo                               | PIP CH<br>DVD/VCR CH<br>V A |
| Grabar   | REC<br>■                    |
| Reproducir   | PLAY<br>▶                   |
| Detener  | STOP                        |
| Adelandar  | PIP MAX<br>FF<br>►►         |
| Regresar   | PIP MIN<br>REW              |
| Pausar   | PAUSE                       |
| Cambiar a modo TV o Videocasetera                          | FREEZE<br>TV/VCR            |
| Despliegue en pantalla                                     | RECALL                      |

#### Operación de decodificador de Cable

Programe el control remoto para utilizar con la caja de cable.

| PARA HACER ESTO                   | OPRIMA                       |
|-----------------------------------|------------------------------|
| Encender/Apagar                   | POWER                        |
| Seleccionar un canal              | 1 2 3<br>4 5 6<br>7 8 9<br>0 |
| Cambiar el canal Arriba/<br>Abajo | CH<br>CH                     |
| Sintonizar el canal previo        | R-TUNE                       |

#### Operación de DBS

Programe el control remoto para utilizar con el DBS.

| PARA HACER ESTO               | OPRIMA                       |
|-------------------------------|------------------------------|
| Encender/Apagar               | POWER                        |
| Desplegar menú DBS            | MENU                         |
| Aspecto DBS                   | ASPECT                       |
| Navegar en menú               | VOL VOL CH                   |
| Seleccionar Canal             | 1 2 3<br>4 5 6<br>7 8 9<br>0 |
| Programar Información         | RECALL                       |
| Sintonizar el Canal previo    | R-TUNE                       |
| Cambiar a la siguiente página | PIP CH<br>DVD/VCR CH<br>▼ ▲  |
| Salir del menú                | EXIT                         |

#### Operación de DVD

Programe el control remoto para utilizar con el DVD.

| PARA HACER ESTO             | OPRIMA               |
|-----------------------------|----------------------|
| Encender/Apagar             | POWER                |
| Capitulo anterior/siguiente | CH<br>CH             |
| Despliega menú del DVD      | RECALL               |
| Adelantar                   | PIP MIN<br>REW       |
| Retroceder                  | PIP MIN<br>REW       |
| Reproducir                  | PLAY                 |
| Abrir/Carrar                | SEARCH<br>OPEN/CLOSE |
| Detener                     | STOP ■               |
| Pausar                      | PAUSE III            |

#### Operación de reproductor de casetes

Para operar un reproductor de casetes, el control remoto debe ser programando en la opción AUX para la marca del equipo.

| PARA HACER ESTO | OPRIMA              |
|-----------------|---------------------|
| Encender/Apagar | POWER               |
| Vol +/-         | VOL VOL             |
| Casetera A/B    | R-TUNE              |
| Grabar          | REC                 |
| Reproducir      | PLAY 🕒              |
| Detener         | STOP                |
| Adelantar       | PIP MAX<br>FF<br>►► |
| Regresar        | PIP MIN<br>REW      |
| Pausa           | PAUSE               |

#### Operación de receptor de audio

Programe el control remoto para utilizar con el receptor de audio.

| PARA HACER ESTO   | OPRIMA  |  |
|---|---|--|
| Encender/Apagar   | POWER   |  |
| Mudo  | 317   |  |
| Vol +/-   | VOL VOL   |  |
| Estaciones pre-grabadas                                   | CH<br>CH  |  |
| Para Seleccionar la modalidad<br>de entrada ó componente: | Oprimar el teclado numerico del control remoto AV 1 Presione 1 AV 2 Presione 2 AV 3 Presione 3 AV 4 Presione 4 CD Presione 5 Radio Presione 6 Phono Presione 7 Cassette Presione 8 AUX Presione 9 |  |
| Envolvente -  | PIP MIN<br>REW  |  |
| Envolvente +  | PIP MAX<br>FF   |  |
| Canal Central +/-   | PIP CH<br>DVD/VCR CH  |  |

#### Operación de PVR (Grabadoras Personales de Video)

Para operar Grabadoras Personales de video, el control remoto debe ser programando en la opción AUX para la marca del equipo.

| PARA HACER ESTO              | OPRIMA                      |
|------------------------------|-----------------------------|
| Encender/Apagar              | POWER                       |
| Desplegar menú PVR           | MENU                        |
| Navigación                   | VOL VOL CH                  |
| Seleccionar un canal         | 1 2 3<br>4 5 6<br>7 8 9     |
| Reproducir                   | PLAY ►                      |
| Grabar                       | REC<br>■ ■                  |
| Pausar                       | PAUSE                       |
| Sintoniza el canal previo    | R-TUNE                      |
| Salir de menú                | EXIT                        |
| Volver a tocar zonas         | R-TUNE                      |
| Saltar rápido                | SEARCH<br>OPEN/CLOSE        |
| Regresar a vivo              | PROG                        |
| Cambiar canales arriba/abajo | PIP CH<br>DVD/VCR CH<br>▼ ▲ |

#### Programando El Control Remoto

El Control Remoto Universal puede programarse para operar componentes de varios fabricantes usando los botones de función para VCR, DVD, DVD, DBS, RCVR, CABLE o AUX. Siga los procedimientos para programar su Control Remoto con o sin código para el componente.

#### Modos De Default Para El Control Remoto

| Equipo     | Funciona                                 | Default                   |
|------------|--|---------------------------|
| Televisión | Televisión (Solo Panasonic)              | Código TV Panasonic       |
| VCR        | VCR (preajustado)                        | Código VCR Panasonic      |
| DVD/CD     | DVD y CD(preajustado)                    | Código DVD Panasonic      |
| DBS        | DBS (preajustado)                        | Código DBS Panasonic      |
| RCVR       | Receptor de audio<br>(preajustado)       | Codigo RCVR<br>Panasonic  |
| CBL        | CABLE (preajustado)                      | Código CABLE<br>Panasonic |
| AUX        | Grabadoras Personales de<br>Video y VCR2 | Codigo PVR Panasonic      |

Determine el fabricante del componente y busque en la Nota: tabla su código (se encuentra en la pagina 19).

#### **Procedimiento**

- 1. Confirme que el componente esté conectado y en operación.
- 2. Apague el componente.
- 3. Presione los botones de juntos, cuando menos 5 segundos. Después de este tiempo, los botones de componentes comenzarán a destellar. Desoprima los botones OK y POWER.

POWER

- 4. Presione el botón de la función apropiada del componente en el Control Remoto (VCR, DVD (CD), DBS, RCVR, CABLE o AUX (Grabadoras Personales de Video o VCR2). El botón seleccionado guedará iluminado y el resto se apagará.
- 5. Accese el código del componente de 3 dígitos usando el teclado numérico (botones 0 ~ 9) del Control Remoto. El botón del componente destellará dos veces.
- **POWER** 6. Presione el botón de el Control Remoto para probar el componente. Si éste procedimiento ha sido exitoso, el componente se encenderá y el botón del componente destellará dos veces.

Nota: Si el componente no opera con el Control Remoto, repita los pasos del 3 al 6 usando otro código (Algunas marcas tienen múltiples códigos). Si un código se ha puesto incorrectamente, o si el procedimiento toma más de 30 segundos, la programación ha fracasado.

#### Programación Sin Código

Este procedimiento busca todos los códigos y se le llama "método de secuencia."

#### **Procedimiento**

- 1. Confirme que el componente esté conectado y en operación.
- 2. Apague el componente.

3. Presione los botones OK У juntos, cuando menos 5 segundos. Después de este tiempo, los botones de componentes comenzarán a destellar. Desoprima los botones OK y POWER.

POWER

4. Presione el botón de la función apropiada del componente en el Control Remoto. El botón seleccionado quedará iluminado y el resto se apagará.

5. Presione el botón para que el control remoto entre en modo de programación por pasos.

Apunte el control remoto hacia el componente.

POWER

7. Presione el botón **VOL** ▶ (los botones de componentes POWER destellarán tres veces). Presione el botón de el Control Remoto para probar el componente. Si éste

procedimiento ha sido exitoso, el componente se encenderá. POWER

8. Presione el botón de el Control Remoto para probar el componente. Si éste procedimiento ha sido exitoso, el componente se encenderá.

Cada vez que presione el botón VOL ▶, asegurese que el Nota: botón del componente destelle dos veces antes de presionar el POWER botón

9. Después de que el código se ha encontrado, presione el botón or para guardar el código.

Repita los pasos anteriores hasta que el código del Nota: componente se halla encontrado. Puede tomar varios intentos hasta encontrar el código correcto. Si se salta POWER

> un código, presione **◄ VOL** y luego el botón de para probar el código.

#### Códigos de Componentes

El Control Remoto Universal tiene capacidad de operar varias marcas de componentes después de introducir el código apropiado. A causa del límite de memoria no se han incluido todos los códigos existentes, por lo cual es posible que algunos componentes no operen. El Control Remoto Universal no controla todas la funciones y características disponibles en todos los modelos.

| Escriba los números del código en este espacio.<br>Esto le servirá como referencia cuando necesite<br>programar su Control Remoto. |            |          |
|--|------------|----------|
| Videocasetera  | DVD        | DVD (CD) |
| DBS  | RECEPTOR   | CABLE    |
| AUX (PVR)  | AUX (VCR2) |          |

### Códigos de Componentes (cont.)

| Códigos para VCR  |                                 |
|-------------------|---------------------------------|
| Marca             | Código                          |
| Admiral           | 335                             |
| Aiwa              | 332                             |
| Akai              | 314, 315, 316,<br>329           |
| Audio<br>Dynamic  | 311, 339                        |
| Bell &<br>Howell  | 305, 313                        |
| Broksonic         | 320, 326                        |
| Canon             | 323, 325                        |
| CCE               | 343                             |
| Citizen           | 306                             |
| Craig             | 305, 306, 329                   |
| Curtis<br>Mathes  | 324, 345                        |
| Daewoo            | 301, 324, 343                   |
| DBX               | 310, 311, 339                   |
| Dimensia          | 345                             |
|                   | 303, 319, 320,                  |
| Emerson           | 325, 326, 343                   |
| Fisher            | 305, 307, 308,<br>309, 313      |
| Funai             | 320, 326, 334                   |
| GE                | 324, 333, 345                   |
| Goldstar          | 306                             |
| Gradiente         | 334                             |
| Hitachi           | 300, 323, 345                   |
| Instant<br>Replay | 323, 324                        |
| Jensen            | 339                             |
| JVC               | 310, 311, 334,<br>339           |
| Kenwood           | 306, 310, 311,<br>339           |
| LXI               | 300, 305, 306,<br>307, 308, 309 |
| Magnavox          | 323, 324, 331                   |
| Marantz           | 310, 311, 339                   |
| Marta             | 306                             |
| Memorex           | 309, 324                        |
| MGA               | 338, 340, 341,<br>347,348       |
| Minolta           | 300, 345                        |
| Mitsubishi        | 338, 340, 341,<br>347, 348      |
| Multitech         | 304, 347                        |
| NEC               | 310, 311, 334,<br>339           |
| Olympic           | 323, 324                        |
| Optimus           | 306, 321, 328,<br>335           |

| Cádigos p          | ara VCR (Cont.)   |
|--------------------|---|
|                    |   |
| Marca              | Código  |
| Orion              | 320, 326<br>321, 322, 323,                                |
| Panasonic          | 324   |
| Penney             | 300, 305, 310,<br>311, 324, 339,<br>345                   |
| Pentax             | 300,311, 345  |
| Philco             | 320, 323, 324,<br>326, 331, 343                           |
| Philips            | 323, 324, 331   |
| Pioneer            | 323   |
| Proscan            | 300, 301, 302,<br>323, 324, 331,<br>333, 345, 346         |
| Quasar             | 321, 322, 323,<br>324                                     |
| Radio<br>Shack     | 305, 309, 324,<br>333, 336, 340                           |
| RCA                | 300, 301,302,<br>323, 324, 331,<br>333, 345, 346          |
| Realistic          | 305, 309, 324,<br>336, 340                                |
| Samsung            | 302, 304, 333   |
| Sansui             | 320, 326, 339,<br>352                                     |
| Sanyo              | 305, 309, 313   |
| Scott              | 301, 302, 304,<br>309, 320, 326,<br>338, 340, 347,<br>348 |
| Sears              | 300, 305, 306,<br>307, 308                                |
| Sharp              | 335, 336  |
| Shintom            | 317   |
| Signature<br>2000  | 335   |
| Singer             | 337   |
| Sony               | 328, 329, 330   |
| Sylvania           | 323, 324, 331   |
| Tashiro            | 306   |
| Tatung             | 310, 311, 339   |
| Teac               | 310, 311, 339   |
| Technics           | 321, 322, 323,<br>324                                     |
| Teknika            | 324   |
| Toshiba            | 301, 346  |
| Vector<br>Research | 311   |
| Wards              | 306, 309, 335,<br>336, 344                                |
| Yamaha             | 305, 310, 311,<br>339                                     |
| Zenith             | 306,344   |

| Códigos para  | Decodificador de<br>Cable       |
|---------------|---------------------------------|
| Marca         | Código                          |
| ABC           | 124                             |
| Archer        | 125, 132                        |
| Cableview     | 105, 132                        |
| Citizen       | 105, 122                        |
| Curtis        | 112, 113                        |
| Diamond       | 124, 125, 132                   |
| Eagle         | 129                             |
| Eastern       | 134                             |
| GCbrand       | 105, 132                        |
| Gemini        | 122                             |
| General       | 111, 119, 120,                  |
| Instrument/   | 121, 122, 124,                  |
| Jerrold       | 125, 126, 127                   |
|               | 112, 118, 140,                  |
| Hamlin        | 141, 142, 145                   |
| Hitachi       | 141, 142, 145<br>103, 124       |
| Macom         | 103, 104, 105                   |
| Magnavox      | 133                             |
| Memorex       | 130                             |
| Movietime     | 105, 132                        |
| Oak           | 102 137 130                     |
| Panasonic     | 109 110 114                     |
|               | 109, 110, 114<br>106, 107, 128, |
| Philips       | 129, 130                        |
| Pioneer       | 101, 116                        |
| Pulsar        | 105, 132                        |
| Puser         | 132                             |
| RCA           | 115                             |
| Realistic     | 132                             |
|               | 112, 118, 140,                  |
| Regal         | 141, 142, 145,                  |
| _             | 149                             |
| Regency       | 134                             |
| Rembrandt     | 105, 132, 137                   |
| Samsung       | 105                             |
| Scientific    | 111, 112, 113                   |
| Atlanta       |                                 |
| Slmark        | 101, 105                        |
| Sprucer       | 105, 110                        |
| Stargate      | 105, 110                        |
| Teleview      | 101, 105                        |
| Texscan       | 144                             |
| Tocom         | 135                             |
| Toshiba       | 104                             |
| Unika         | 125, 132                        |
| Universal     | 122, 132                        |
| Videoway      | 106                             |
| Viewstar      | 129, 130                        |
| Zenith        | 100, 117                        |
| Zenith/.Drake | 100                             |
| Satellite     |                                 |

| Códigos para DBS |                |  |
|------------------|----------------|--|
| Marca            | Código         |  |
| Dish Network     | 105, 115, 116  |  |
| (Echostar)       |                |  |
| Echostar         | 105            |  |
| Express VU       | 105, 115       |  |
| G. E.            | 106            |  |
| G.I. (General    | 108            |  |
| Instrument)      |                |  |
| Gradiente        | 114            |  |
| Hitachi          | 103, 111,      |  |
|                  | 112            |  |
| HNS (Hughes)     | 103            |  |
| Magnavox         | 101, 102       |  |
| Panasonic        | 104            |  |
| Philips          | 101, 102       |  |
| Primestar        | 108            |  |
| Proscan          | 106, 109, 110, |  |
|                  | 113            |  |
| RCA              | 106, 109,      |  |
|                  | 110, 113       |  |
| Sony             | 107            |  |
| Star Choice      | 103, 108       |  |
| Thoshiba         | 100            |  |
| Uniden           | 101, 102       |  |
| Códigos para DVD |                |  |
| Marca            | Código         |  |
| Denon            | 100            |  |
| Ferguson         | 101            |  |
| n (0             | 1.00           |  |

| Códigos para DVD |  |  |
|------------------|--|--|
| Código           |  |  |
| 100              |  |  |
| 101              |  |  |
| 109              |  |  |
| 105              |  |  |
| 101              |  |  |
| 100              |  |  |
| 103              |  |  |
| 102              |  |  |
| 101              |  |  |
| 101              |  |  |
| 110              |  |  |
| 108              |  |  |
| 104              |  |  |
| 100              |  |  |
| 101              |  |  |
| 103              |  |  |
| 100              |  |  |
| 107              |  |  |
|                  |  |  |

#### Códigos de Componentes (Cont.)

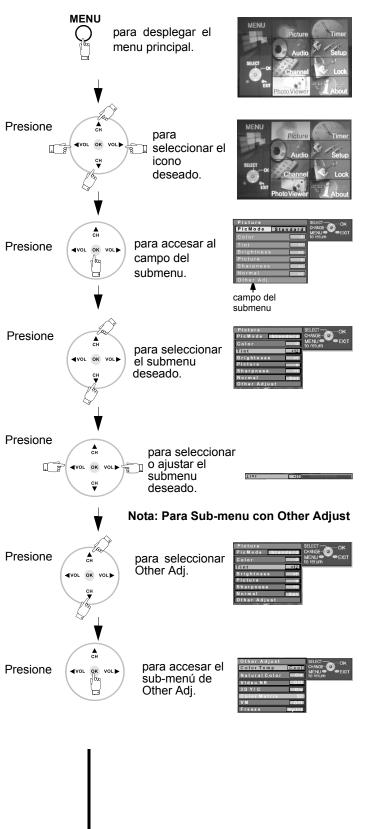
| Códigos pa | ara Equipos de<br>asete |
|------------|-------------------------|
| Marca      | Código                  |
| Aiwa       | 223, 224, 225           |
| Denon      | 231                     |
| Fisher     | 203                     |
| Jensen     | 214                     |
| JVC        | 229, 230                |
| Kenwood    | 200, 207                |
| Marantz    | 202                     |
| Nakamichi  | 205                     |
| Onkyo      | 208, 209, 213           |
| Panasonic  | 216, 218                |
| Philips    | 222                     |
| Denon      | 231                     |
| Fisher     | 203                     |
| Jensen     | 214                     |
| JVC        | 229, 230                |
| Kenwood    | 200, 207                |
| Marantz    | 202                     |
| Nakamichi  | 205                     |
| Onkyo      | 208, 209, 213           |
| Panasonic  | 216, 218                |
| Philips    | 222                     |
| Pioneer    | 204                     |
| RCA        | 226, 227, 228           |
| Sansui     | 205, 210                |
| Sharp      | 231                     |
| Sony       | 219, 220                |
| Teac       | 210, 211, 215           |
| Technics   | 216, 218                |
| Yamaha     | 201, 202                |

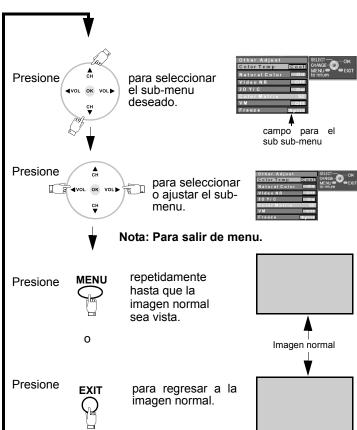
| Códigos para Receptores |                            |  |
|-------------------------|----------------------------|--|
| Marca                   | Código                     |  |
| Admiral                 | 120                        |  |
| Aiwa                    | 125, 126                   |  |
| Denon                   | 134, 135, 136              |  |
| Fisher                  | 104                        |  |
| Garrard                 | 113                        |  |
| Harman<br>Kardon        | 115, 123                   |  |
| Jensen                  | 129                        |  |
| JVC                     | 132, 133                   |  |
| Kenwood                 | 100, 108                   |  |
| Magnavox                | 127                        |  |
| Marantz                 | 124                        |  |
| McIntosh                | 116                        |  |
| Nakamichi               | 106                        |  |
| Onkyo                   | 109, 114                   |  |
| Optimus                 | 103, 127, 130,<br>131      |  |
| Panasonic               | 118, 119, 121              |  |
| Philips                 | 123                        |  |
| Pioneer                 | 105, 107                   |  |
| Quasar                  | 118, 119, 121              |  |
| RCA                     | 103, 105, 127,<br>130, 131 |  |
| Sansui                  | 103, 111, 139              |  |
| Sharp                   | 134, 137                   |  |
| Sony                    | 122                        |  |
| Soundesign              | 138                        |  |
| Teac                    | 111, 112, 113              |  |
| Technics                | 118, 119, 121              |  |
| Victor                  | 132, 133                   |  |
| Yamaha                  | 101, 102                   |  |

| Códigos para reproductor de CD |                       |  |
|--------------------------------|-----------------------|--|
| Marca                          | Código                |  |
| Admiral                        | 226                   |  |
| Aiwa                           | 233, 235              |  |
| Carver                         | 229                   |  |
| Denon                          | 242                   |  |
| Emerson                        | 239                   |  |
| Fisher                         | 205                   |  |
| Harman/Kardon                  | 219, 220,<br>221, 223 |  |
| Hitachi                        | 207                   |  |
| Jensen                         | 234                   |  |
| JVC                            | 240, 241, 245         |  |
| Kardon                         | 223                   |  |
| Kenwood                        | 200, 201, 211,<br>245 |  |
| LXI/Sears                      | 236                   |  |
| Magnavox                       | 229, 232              |  |
| Marantz                        | 229                   |  |
| McIntosh                       | 221                   |  |
| Nakamichi                      | 210                   |  |
| Onkyo                          | 214, 215              |  |
| Optimus                        | 208, 218,<br>220, 222 |  |
| Panasonic                      | 224, 225, 227         |  |
| Philips                        | 229, 230              |  |
| Pioneer                        | 208                   |  |
| Quasar                         | 224, 225, 227         |  |
| RCA                            | 231, 237,<br>238, 247 |  |
| Sansui                         | 210, 246              |  |
| Sanyo                          | 205                   |  |
| Scott                          | 210, 246              |  |
| Sharp                          | 242, 243              |  |
| Sherwood                       | 220                   |  |
| Sony                           | 228                   |  |
| Soundesign                     | 244                   |  |
| Teac                           | 212, 216, 218         |  |
| Technics                       | 224, 225, 227         |  |
| Victor                         | 240, 241, 245         |  |
| Yamaha                         | 202, 203, 204         |  |

| Códigos para Grabadoras<br>Personales de Video |        |  |
|--|--------|--|
| Marca  | Código |  |
| Panasonic Replay<br>TV                         | 100    |  |
| Philips Tivo                                   | 102    |  |
| Sony Tivo                                      | 101    |  |

#### Navegación básica del menú





#### Operación del Menú

#### **Picture (IMAGEN)**

**Nota:** Mientras la funciones del sub-menu estan remarcadas, presione **VOL** ▶ para ajustar o activar.

MODO - Le permite escoger uno de tres modos de imágen preseleccionados para ver el programa. El seleccionar esta función también afectara Temp Color.

> AJUSTES PREDISPUESTOS DE FABRICA PARA MODO Y TEMP COLOR

| MODO     | TEMP. COLOR |
|----------|-------------|
| VIVIDO   | AZUL        |
| ESTANDAR | NORMAL      |
| CINEMA   | ROJO        |

**Nota:** Cada modo tiene sus propios ajustes de imágen (Color, brillo, tinto, contraste y nitidez) y Temp Color.

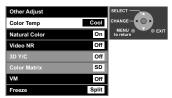
- VIVIDO Este el modo de fábrica. Crea una imágen de contraste y nitidez mejorados para ver se en un cuarto bien iluminado.
- ESTANDAR Este el modo de fábrica. Crea una imágen de contraste y nitidez mejorados para ver se en un cuarto bien iluminado.
- CINEMA Seleccione este modo par ver peliculas en un cuarto oscuro. Provee una imágen más suave, tipo cine.
- ☐ COLOR Ajusta la intensidad del color deseada.
- ☐ TINTE Ajusta los tonos naturales de la piel.
- BRILLO Ájusta las áreas oscuras para detalles más nítidos.
- CONTRASTE Ajusta las área blancas de la imagen.
- □ NITIDEZ Ajusta para dar mejor claridad a los detalles de la silueta.
- NORMAL Reajusta todas las modificaciones de la imagen a los predispuestos de fábrica.



#### ☐ Other Adjust (Otros Ajustes)

Seleccione OTROS AJ. y presione **OK** par desplegar el sub-menu.

**Nota:** Mientras las funciones del sub sub-menu estan remarcadas, presione **◄ VOL** o **VOL ▶** para seleccionar o activar.



- TEMP COLOR (temperatura) Para aumentar o disminuir el rojo y e azul para acomodarse a las preferencias personales.
- COLOR NATURAL Esta función expande el rango de reproducción del color, lo que resulta en imagenes mas vivas con una graduación de colores mas nautural y tonos mas delicados.
- REDUC DE RUIDO Reduce el ruido de canal normalmente llamado "nieve".

- 3D Y/C FILTRO Minimiza el ruido y cruce de color en la imágen.
- MATRIZ COLOR Disponible solo con señal 480p. Seleccione HD o SD para ajuste automático de los parámetros de color para transmisiones de HD (alta definición) y SD (definición estándar). Esta función no se puede seleccionar cuando se ve programación regular de TV (NTSC).

**Nota:** Cuando esté viendo una señal de DTV en un formato no-estándar, puede cambiar los parámetros de color manualmente para obtener una mejor calidad de imágen.

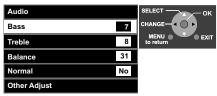
- MV (Velocidad de modulación) Incrementa la nitidez de la imágen y da mejor transición de blancos a negros.
- FREEZE Esta función es usada da para congelar la imagen principal y desplegarla en la IDI or pantalla SPLIT cuando el botón FREEZE en el control remoto es presionado. Presione FREEZE de nuevo para eliminar la pantalla.

Nota: Los botones SWAP, SEARCH, SIZE , PIP MIN y PIP MAX no funcionan en este modo

#### **AUDIO**

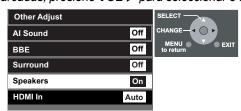
**Nota:** Mientras la funciones del sub-menu estan remarcadas, presione **VOL** ▶ para ajustar o activar.

- ☐ BAJOS Aumenta o disminuye los sonidos bajos
- ☐ ALTOS Aumenta o disminuye los sonidos altos.
- ☐ BALANCE Enfatiza el volumen del altavoz derecho / izquierdo.
- NORMAL Reajusta BAJOS, ALTOS y BALANCE a los niveles prefijados de fábrica.



#### ☐ Other Adjust (Otros Ajustes)

Nota: Mientras las funciones del sub sub-menu estan remarcadas, presione VOL ▶ para seleccionar o activar.



- SONIDO IA Automáticamente mantiene el volumen constante entre programas y comerciales.
- BBE<sub>®</sub> El Sonido de Alta Definición BBE restaura la claridad y presencia para un mejor entendimiento del habla y realismo musical..

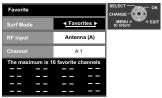
#### **AUDIO** (cont.)

- ☐ Other Adjust (OTROS AJUSTES)
  - SURROUND Sonido envolvente tridimensional con dos altavoces.
  - SPEAKERS Esta función le permite encender o apagar los altavoces.
    - On Los Altavoces funcionan normalmente.
    - Off Los altavoces no funcionan.
  - HDMI In Cuando se utilice HDMI, esta opción le permitirá cambiar entre entrada analoga y entrada digital.
    - Auto Selecciona automaticamente señal analoga/ Digital.
    - Digital Solo entrada digital.
    - Analog Solo entrada Analoga.

#### Channels (CANALES)

**FAVORITE** - Le permite crear una lista de canales favoritos de la Antena (A) o Antena (B).

- □ SURF MODE Seleccione FAVORITE o ALL CHANNELS con los botones ◀ VOL o VOL ▶, luego presione el botón OK.
- ☐ RF Input Seleccionar Antena (A) o Antena (B).
- ☐ CHANNEL Use los botones ◀ VOL o VOL ▶ para seleccionar los canales, después presione OK para añadir. Para remover el canal, presione OK mientras el número del canal este desplegado.



**Captions** - Para añadir etiquetas manuales o preseleccionadas a canales deseados. Tambien coloca etiquetas a las entradas de video.

☐ Preset Labels (Prefijado) - Asigne los números de canal para los títulos/siglas prefijados.

#### Procedimiento

 Presione el botón OK mientras Preset Labels tiene seleccionado la entrada RF Input, luego presione
 ✓ VOL o VOL ➤ para seleccionar Antena (A) o Antena (B).

**Nota:** Solo entradas con señal podrán ser seleccionadas.

- Presione **OK** para subrayar su selección.
- Presione CH ▼ para seleccionar el titulo prefijado deseado.
- Use los botones numéricos del control remoto para seleccionar el canal deseado (hacer referencia a su guía de TV local).



Nota: Para borrar un canal, presione ◀ VOL cuando el canal está seleccionado

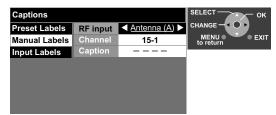
☐ Manual Labels (Titulos Manuales) - Para introducir los números y titulos manualmente.

#### **Procedimiento**

 Presione OK cuando Titulos Manuales esta seleccionado a la señal de entrada RF, luego presione ✓ VOL o VOL ► para seleccionar Antena (A) o Antena (B).

Nota: Solo entradas con señal podran ser seleccionadas.

- Presione **OK** para subrayar su selección.
- Presione CH ▼ para seleccionar CHANNEL, luego presione ◀ VOL o VOL ► para seleccionar el número de canal disponible.
- Presione **OK** para subrayar su selección.
- Presione CH ▼ para seleccionar CAPTION.
- Presione VOL ➤ para seleccionar la posición del primer caracter, luego presione CH ▲ o CH ▼ seleccionar el caracter.
- Repita hasta que todos los caracteres sean introducidos, hasta siete caracteres pueden ser introducidos por canal.
- Use los botones numéricos del control remoto para seleccionar el canal deseado.



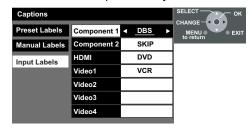
 Input Labels (Titulos de entradas de video) - Para clasificar las conexiones de entrada de video que se visualizan en la pantalla.

#### **Procedimiento**

- Presione **OK** mientras Input Labels tiene seleccionado COMPONENT 1, después presione **◄ VOL** o **VOL** ▶ para seleccionar la etiqueta de entrada predefinida para COMPONENT 1.
- Presione **OK** para subrayar la selección.
- Presione CH ▼ para seleccionar otra entrada, repita el procedimiento para agregar mas titulos a las entradas.

#### Nota:

- Para remover los titulos seleccione la entrada deseada, presione ■ VOL o VOL ► hasta que un no titulo sea mostrado.
- Presione OK para subrayar el titulo.



#### Operación del Photo Viewer™

El Photo Viewer le permite mostrar imagenes JPEG grabadas en una tarjeta SD o PCMCIA cuando es insertada en la abertura correcta.



#### Notas:

- Otros tipos de tarjetas de memoria pueden ser insertados en la abertura PCMCIA usando el adaptador de tarieta apropiado.
- Las tarjetas de memoria no son incluidas con este televisor.

## Tarjetas de memoria compatibles que pueden ser usadas con el Photo Viewer™

| Tipo de tarjeta   | Capacidad máxima   |
|---|--|
| SD, MMC (Multi Media Card),<br>Smart Media*, Compact Flash*<br>Memory Stick*, xD-Picture Card*,<br>Flash ATA*, memory Stick Pro*  | SD - 512MB, MMC - 64MB<br>Smart Media - 128MB,   |
| *Estas tarjetas requieren de un<br>adaptador PCMCIA estándar.<br>Nota: Photo Viewer™ no es<br>compatible con discos duros tipo<br>tarjeta (Micro Drive, Mobile type hard<br>disk, etc.) | Compact Flash - 1 GB<br>Memory Stick - 128MB<br>xD-Picture Card - 128MB<br>Flash ATA - 128MB<br>Memory Stick Pro - 1GB |

#### Insertando y removiendo tarjetas SD o PCMCIA

ADVERTENCIA: Como con cualquier objeto pequeño, las tarjetas SD pueden ser tragadas por niños pequeños. Remueva la tarjeta SD inmediatamente despues de usarla.

#### **Procedimiento**

- Tarjeta SD Introduzca la tarjeta SD en la abertura SD hasta que haga click. Presione la tarjeta de nuevo para removerla.
- ☐ Tarjeta PCMCIA Introduzca la tarjeta hasta que asiente firmemente. Para remover la tarjeta, presione el botón en el lado derecho de la abertura. Previo a remover la tarjeta PCMCIA, asegurese de apagar el televisor. De otra manera, puede dañar el televisor.

#### Información sobre las tarjetas de memoria

 Las tarjetas de memoria deben estar formateadas con FAT12 o FAT16 para que puedan ser accesadas. Si la tarjeta no esta formateada puede ocasionar incompatibilidad con algunos adaptadores de tarjetas. Si esto sucede, reformatee la tarjeta utilizando su cámara digital. Vea el manual de su cámara para más información.

**Nota:** Al reformatear la tarjeta se borraran todas las imagenes en ella.

 Si el JPEG es modificado usando una PC, este no sera visto en el televisor.

#### Operación básica

Introduzca ya sea la tarjeta SD o PCMCIA en la abertura correspondiente. La imagen desaparece de la pantalla mientras el Photo Viewer accesa la información de la tarjeta. Despues de accesar las imagenes de la tarjeta, aparecera una imagen con previsualizaciones en pantalla. Use los botones de navegación para seleccionar la previsualización deseada y presione **OK** para

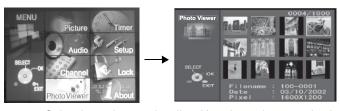
mostrar la imagen en pantalla. Use ◀ VOL o VOL ▶ para seleccionar la imagen previa o siguiente. Presione EXIT para salir del Photo Viewer.

#### Photo Viewer™ - Modo de previsualización

La pantalla de previsualización es la primera pantalla accesada desde el menú principal. Muestra la cantidad total de imagenes en la tarjeta, el nombre del archivo (número de folder y el número de la previsualización seleccionada), la fecha en que la foto fué tomada y la resolución de la misma.

#### **Procedimiento**

- Presione MENU para accesar el menú principal.
- Seleccione el icono Photo Viewer usando los botones de navegación (izquierda/derecha/arriba/abajo).
- Presione OK para mostrar la pantalla de previsualizaciones.



- Seleccione la previsualización deseada usando los botones de navegación.
- Presione **OK** para ver la imagen seleccionada.
- Cambie la imagen presionando los botones ✓ VOL o VOL ►.
- Para girar la imagen (en caso de ser necesario), use los botones CH ▼ o CH ▲.

#### Notas:

- Número máximo de carpetas que pueden desplegarse: 100.
- Tamaño máximo de archivo: 3000. Cualquier carpeta con archivos más grandes no será mostrada.
- Resolución de imagen: Compatible en el rango 64x64 8192 x 8192 (sub-muestreo 4:2:2 o 4:2:0)
- Si la imagen es importada de una PC, debe usar el formato EXIF (Exchangeable image file format) 2.0, 2.1, 2.2 ademas del formato DCF (design rule for Camera File system), o no podrá ser desplegada.
- Si el JPEG es modificado usando una PC, no será desplegado en el televisor.
- El Photo Viewer™ no puede mostrar JPEG animado o imagenes fijas no formateadas con DCF(ejem. TIFF, BMP).
- Si el archivo esta parcialmente corrompido, podria ser mostrado a una resolución menor.
- Si la tarjeta SD y la PCMCIA son insertadas al mismo tiempo, la tarjeta SD tiene prioridad. De lo contrario, la última tarjeta insertada tiene prioridad.
- No quite la tarjeta SD o PCMCIA mientras el Photo Viewer™ este accesando la información (cuando el icono de la tarjeta esta destellando). Esto podría dañar la tarjeta de memoria o el televisor.

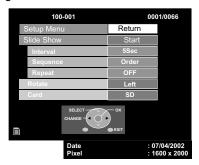
#### Operación del Photo Viewer™ (Cont.)

#### Menú de Setup del Photo Viewer™

Este menú le permite ajustar varios parámetros del Photo Viewer.

#### **Procedimiento**

- Seleccione el icono del Photo Viewer y presione OK para mostrar la pantalla de previsualización.
- Presione el botón SD en el control remoto para mostrar el menú de Setup.
- Use los botones CH▼▲, ◀ VOL o VOL ▶ para navegar en el menú.



En este menú podrá ajustar las opciones del Photo Viewer.

☐ Slide Show - Le permite comenzar un slide show presionando **OK** si la opción Start esta seleccionada. Presione **OK** para detener el Slide show.

**Nota:** Cuando esta en modo de Slide show, puede cambiar el aspecto de la imagen en pantalla presionando el botón **ASPECT** en el control remoto.

- ☐ Interval Le permite ajustar el tiempo que la imagen aparece en pantalla. Los tiempos disponibles son: 5seg, 10seg, 15seg, 30seg, 60seg, 90seg y 10 minutos.
- Seguence Seleccione en órden o aleatorio.
- Repeat Para repetir el Slide show automáticamente.

Nota: Una vez ajustados Interval, Sequence o Repeat, presione CH ▲ para seleccionar Start, luego presione OK para salvar los ajustes y empezar el Slide Show.

- ☐ Rotate Le permite girar la imagen.
- Zoom Le permite ajustar la magnificación de la imagen en pantalla. Presione **OK** aplicar el grado de magnificación seleccionado. Para mover la imagen presione los botones de navegación.

#### **Procedimiento**

- Estando en el modo de despliegue de imagen sencilla (Single Slide display mode), presione SD para accesar el menú de ajuste del Photo Viewer™. La opción Zoom será mostrada en el menú de ajuste.
- Seleccione Zoom y presione OK.
- Presione ■ VOL o VOL ■ para elegir To Fit, x2 o x4.
- Presione **OK**. Para mover la imagen en el marco de la imagen utilize los botones de navegación.
- Card Selecciona entre la tarjeta SD o PCMCIA cuando ambas se encuentran insertadas.

A continuación se muestran unos de los mensajes de error que pueden ser mostrados en pantalla cuando algunas condiciones no se cumplen o exceden las especificaciones del Photo Viewer $^{\text{TM}}$ .

Mensajes de error

| wensajes de error  |  |  |  |
|--|--|--|--|
| Error  | Mensaje mostrado<br>en pantalla                                  |  |  |
| Al momento de insertar la tarjeta  | No hay tarjeta o la tarjeta no fué insertada correctamente.      |  |  |
| Archivo JPEG corrompido y no puede decodificarse.  | Este tipo de imágen es válido.                                   |  |  |
| El archivo no esta formateado<br>con FAT 12 o FAT 16 o no<br>cumple con el estándar DCF. | Este tipo de formato no es válido.                               |  |  |
| La previsualización o la<br>imagen principal no pueden<br>ser mostradas                  | Aparecerá este ícono donde debería aparecer la previsualización. |  |  |
| Más de 3000 archivos   | Photo Viewer™ no puede accesar<br>más de 3000 archivos JPEG.     |  |  |
| Excede la resolución   | Photo Viewer™ no puede accesar imágenes de más 8192x8192 pixels  |  |  |
| Tarjeta no compatible es insertada   | Este tipo de tarjeta no es válido                                |  |  |

#### Localización de fallas del Photo Viewer™

| Ecounización de la                          | ias dei Filolo viewei  |
|---|--|
| Síntomas                                    | Soluciones   |
| No puede leer el contenido<br>de la tarjeta | A). Formato incompatible. Debe ser formateado con FAT 12 o FAT 16.      B) La extensión no es "JPG". El Photo Viewer solo puede mostrar archivos JPEG con el estándar EXIF.      C) Las carpetas no cuentan con el estándar DCF. |
| La tarjeta no puede ser removida            | Presione la tarjeta hasta que quede insertada completamente y luego remuevala.   |
| Calidad de imagen pobre                     | Si la imagen principal no puede ser<br>accesada (el archivo está<br>parcialmente corrompido), el photo<br>viewer accesará la previsualización.<br>Confirme el formato de la imagen.  |
| Mas tiempo para desplegar                   | Tomará más tiempo para desplegar,<br>si contiene demasiadas imagenes o<br>si el tamaño de la imagen es<br>grande.  |

#### Notas:

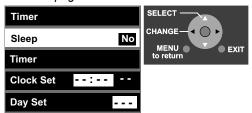
- Si las previsualizaciones o una imagen son mostradas por más de 10 minutos, Movimiento de imagen (Image shift ver pág. 26) se activará para prevenir la retención de imagen. La imagen en pantalla se agrandará y reducirá en cuatro (4) pasos. Para salir de este modo, presione OK o seleccione otra imagen o presione otro botón.
- Durante el Slide show, el movimiento de imagen será activado si la imagen es mostrada por más de cinco (5) minutos. La imagen se moverá horizontalmente (izquierda o derecha) en incrementos de minutos. El movimiento de imagen no se activará si está apagado.

#### **Timer (CRONOMETRO)**

Este menú le permite ajustar los cronómetros (Sleep y Timer ), la hora y el día de la semana.

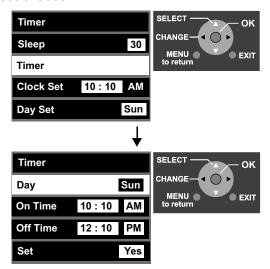
☐ APAGADO (Sleep) - En el menú de Cronómetro, seleccione Apagado para programar la Televisión en 30, 60 ó 90 minutos. Seleccione NO para desactivar el Cronómetro.

**Nota:** El despliegue en pantalla mostrará destellando los números 3, 2 y 1 para indicar los últimos tres (3) minutos antes de apagarse.



#### **Procedimiento**

- Presione **MENU** para desplegar el menú principal.
- Seleccione el icono Timer usando los botones de navegación.
- Presione el botón **OK** para desplegar el menú Timer (Cronómetro).
- Presione el botón VOL ► para seleccionar 30, 60, 90 minutos o No.
- ☐ **Timer (Cronom)** Seleccione cronómetro, para encender y apagar la televisión a la hora y los días seleccionados.



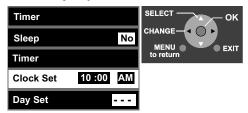
#### Procedimiento

- Dentro del menú Timer, presione CH ▼ para seleccionar Timer
- Presione OK para mostrar el sub-menú de Timer.
- Presione ◀ VOL o VOL ▶ para seleccionar el día deseado.
- Presione CH ▼ para colocarse en On Time.
- Presione OK para colocar la hora. Presione CH ▲ o CH
   ▼ para ajustar la hora (AM o PM).
- Presione VOL ➤ y CH ▲ para ajustar los minutos.
- Presione OK o MENU para grabar los ajustes.
- Presione CH ▼ para colocarse en Off Time y repita el mismo procedimiento para colocar la hora.

- Presione CH ▼ para colocarse en Set y seleccione Yes o No.
- Presione **EXIT** para salir del menú.
- Introduzca el canal deseado con los botones numéricos y el botón PROG (en caso necesario). El televisor sintonizará este canal cuando el cronómetro se active.
- Apague el televisor.
- El televisor se encenderá a la hora seleccionada y a el canal que se tenia al momento de apagar el televisor.

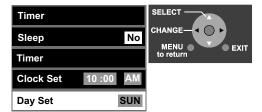
#### Notas:

- El reloj debe ser ajustado antes de programar Timer.
   Use los botones de navegación para seleccionar el icono de Timer.
- La televisión se activado automáticamente después de 90 minutos cuando se encendió con el CRONOMETRO. Si se selecciona APAGAR o si se presiona una tecla, el apagado automático de 90 minutos se cancela.
- ☐ Ajuste del reloj Ajuste la hora de la semana. .



#### **Procedimiento**

- En el menú de Timer, presione CH ▼ para colocarse en Clock Set y presione OK.
- Presione CH ▲ o CH ▼ para ajustar la hora (AM o PM).
- Presione VOL ➤ para pasar al siguiente campo.
   Presione CH ▲ o CH ▼ para ajustar los minutos.
   Presione MENU o OK para regresar a la pantalla de Timer.
- □ Day Set Selecciona el día de la semana.



#### Procedimiento

- Presione CH ▼ para colocarse en Day Set y seleccione el día de la semana usando ◀ VOL o VOL ▶.
- Presione EXIT para salir del menú.

#### **SET UP (AJUSTE)**

El menú de Set Up le permite seleccionar la antena, programar canales análogos o digitales, seleccionar subtitulos análogos y digitales, ajustar la convergencia, el auto encendido, movimiento de imagen y ajuste de magnificación.

#### **Procedimiento**

- Presione el botón MENU para desplegar el menú principal.
- Presione ▼ CH , CH ▲, ◀ VOL o VOL ▶ para seleccionar el icono de Set Up.
- Presione **OK** para mostrar las opciones del menú de Setup.





#### **Program CH (Programar canales)**

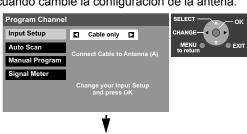
Este menú le permite seleccionar la antena, autoprogramar todos los canales análogos o digitales disponibles, manualmente agregar o remover canales y mostrar la fuerza de la señal recibida de los canales digitales.

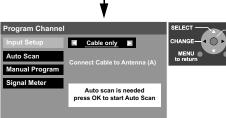
☐ Input Setup - Sirve para seleccionar el modo de antena (Cable Only, Cable/Antenna o Antenna Only).

Nota: Puede conectar una antena de cable o terrestre al conector Ant A. Pero, si tiene ambas, la antena del Cable debe ser conectada al conector Ant A y la antena terrestre al conector Ant B.

#### **Procedimiento**

- En el menú de ajuste (Set Up), seleccione Program Channel y presione OK.
- Presione OK para entrar al sub-menú. Presione ■ VOL
   o VOL ■ para seleccionar Cable Only, Cable/Antenna o
   Antenna Only.
- Presione OK. Cuando la siguiente pantalla sea desplegada, presione OK para iniciar la auto programación. La auto programación debe hacerse cuando seleccione la señal de entrada por primera vez o cuando cambie la configuración de la antena.





#### Notas:

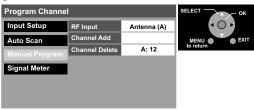
- Si selecciona Cable Only, Antenna Only o Antenna/ Cable y el módulo CableCARD no está conectado, la auto programación hará un Scan All (busqueda completa).
- Si Cable Only es seleccionado y el módulo CableCARD está conectado, el Auto scan no se hará.
- Si Cable/Antenna es seleccionado y el módulo DCM está conectado, Antenna (B) Analog y Digital Auto scan se llevarán a cabo.
- Auto Scan (Auto Programación) Programa automáticamente todos los canales disponibles.

#### **Procedimiento**

- Coloquese en Auto Scan y presione OK para entrar al sub-menú.
- Use ▼ CH y CH ▲ para seleccionar Scan All y presione
   OK para iniciar. Una vez terminada la auto programación presione MENU para regresar al menú anterior.



☐ Manual Program (Programación Manual) - Para agregar o borrar canales manualmente.

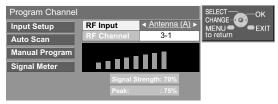


Signal Meter (Medidor de señal) - Muestra la fuerza de la señal digital ATSC recibida ya sea en Antena (A) o Antena (B).

Note: Esta función no esta disponible para canales análogos.

#### **Procedimiento**

- Coloquese en Signal Meter y presione **OK** para entrar al sub-menú.
- En el campo RF Input, seleccione Antenna (A) o Antenna (B).
- Seleccione el canal usando ■ VOL o VOL ■.
- Presione **OK** para mostrar la fuerza de la señal.



**Nota:** El color de las barras indica usualmente la fuerza de la señal recibida.

- Verde Señal adecuada para buena recepción.
- Amarillo Señal pobre.
- Rojo Señal muy pobre.

#### **Closed Caption (Subtitulos)**

Este televisor incluye un decodificador integrado que es capaz de mostrar subtítulos del sonido escuchado. El programa visto debe proveer subtítulos para que el televisor pueda mostrarlos. Puede ajustar sus preferencias para los subtítulos digitales y los análogos.



- ☐ CC Mode (Modo CC) Seleccione On, Off o Mute.
  - Off Cuando no se desea le modalidad de subtitulos.
  - On Para desplegar Subtitulos.
  - On Mute Active la modalidad de subtitulos en pantalla cuando el audio es silenciado.

#### Analog (Análogo)

Le permite ajustar las opciones de los subtítulos análogos.

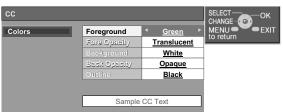
- En el menú Closed Caption, seleccione Analog y presione OK para entrar al sub-menú.
- Presione ◀ VOL o VOL ► para seleccionar la opción deseada:
  - CC1 Para que la información relacionada con el vídeo sea desplegada en hasta 4 líneas en pantalla a la vez. (No bloquea partes relevantes de la imagen). El texto puede ser en cualquier idioma.
  - CC2 a CC4 Otras modalidades de información relacionada con el video.
  - T1 a T4 Para que la guía de la programación o cualquier otra información sea desplegada en pantalla, cuando este disponible. (Bloquea una gran porción de la imagen en la pantalla de la televisión).
- Presione MENU para regresar al menú de Closed Caption.

#### **Digital**

Este menú le permite configurar el tipo de servicio de los subtítulos, tipo de letra, tamaño de letra y estilo de letra. El sub-menú Color le permite configurar el color de la letra, el color del fondo en que el texto es mostrado, la opacidad de la letra, la opacidad de la caja de texto y el filo de la sombra (si esta es seleccionada).

#### Sub-menú Colors

 En el sub-menú de subtítulos digitales, seleccione Colors y presione OK.



Nota: Cuando se utilizan los subtítulos digitales, la salida para monitor (Prog Out) tambien mostrará los subtítulos. Esto significa que si graba el progama, los subtítulos tambien serán grabados. Para evitar esto, apague los subtítulos digitales o utilize los análogos.

#### Other Adj. (Otros ajustes)

El menú Other Adj. le permite configurar el auto encendido, la convergencia, el movimiento de imagen y la magnificación.

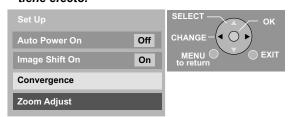
- Auto Power On (Autoencendido) Seleccione SET para encender la televisión al mismo tiempo que el Decodificador de Cable u otros componentes, o seleccione Off.
- ☐ Image Shift (Movimiento de imagen) Esta función ayuda a evitar la retención de imagen causada por ver imagenes fijas por un periodo extendido de tiempo. La imagen es corrida a la izquierda o derecha en pequeños incrementos si una imagen fija se deja en pantalla por un periodo extendido de tiempo. Es recomendado seleccionar On para esta opción.
- ☐ Convergence (Convergencia) Esta función le permite ajustar la convergencia en caso de ser necesario.
- Zoom Adjust (Magnificación) Esta función le permite ajustar el tamaño de la magnificación y su posición vertical.

#### **Procedimiento**

- En el menú Set Up, seleccione Other Adj. y presione OK para entrar al sub-menú.
- Use ▼ CH o CH ▲ para navegar. Presione ◀ VOL o VOL para seleccionar o presione OK para mostrar el sub-menú de Convergence o Zoom Adjust.

#### Convergence (Convergencia)

Nota: Solo use los botones del control remoto mientras ajusta la convergencia. El panel de control frontal no tiene efecto.



**Nota:** La convergencia no suele necesitar ajuste, excepto después de mover el televisor o para hacer ajustes menores.

#### **Procedimiento**

- Presione **OK** para seleccionar el campo de Convergence.
- Presione CH ▲ o CH ▼ para ajustar:
  - Convergence Adj. Seleccione para realizar el ajuste de convergencia.

**Nota:** Una vez seleccionado, presione **OK** para continuar el ajuste.

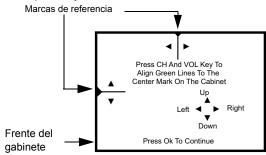
 Reset to Default - Seleccione para regresar la convergencia a su ajuste de fábrica. **Nota:** Una vez seleccionado, presione **OK** para aplicar el ajuste.



#### Convergence Adj. (Ajuste de Convergencia)

#### **Procedimiento**

- Después de presionar OK se desplegará la pantalla para alinear el verde al centro.
- Después utilice los botones de navegación en el control remoto para alinear las lineas verdes horizontales y verticales en la pantalla, con las marcas de referencia del gabinete en la parte central superior, inferior, izquierda y derecha.

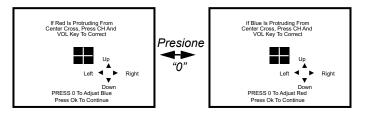


- Presione **OK** para msotrar la imagen de corrección de rojo al centro.
- Use los botones de navegación para alinear la cruz ROJA con el patrón blanco.

Nota: PARA PREVENIR DAÑO AL TUBO DE LA IMAGEN, NO DEJE ENCENDIDO EL PATRON DE PRUEBA POR UN PERIODO DE TIEMPO PROLONGADO.

 Presione "0" en el teclado de control remoto para desplegar la pantalla para corrección del AZUL, después repita el procedimiento para ajustar el azul. De ser necesario presione "0" nuevamente para regresar a la pantalla para corregir el ROJO.

**Nota:** Un patrón de cruz ajustado aparece blanco con un minímo de color saliente.



#### Correción de convergencia en nueve puntos

Nota: El control remoto debe estar en modo de TV.

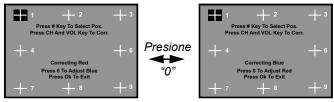
#### **Procedimiento**

- Presione el botón OK para desplegar el menú convergencia ROJO.
- Presione los botones de 1 al 9 en el control remoto para seleccionar posición de corrección de convergencia.
- Use los botones de navegación para alinear la cruz ROJA con la cruz blanca.

**Nota:** Un patrón de cruz ajustado aparece blanco con un minímo de color saliente.



 Presione "0" en el teclado del control remoto para desplegar la pantalla para corrección de AZUL, después repita el procedimiento.



 Para salir presione el botón OK, después presione EXIT para salir todos menús.

#### Cable Module Info (Información del módulo del Cable)

Este menú es usado para proveer información cuando un módulo CableCARD™ es introducido en el conector CableCARD INTERFACE en la parte posterior del televisor. Si no hay un CableCARD conectado y trata de accesar la información del módulo de cable, el mensaje 'Cable Module Not present' se mostrará en pantalla. Para utilizar las funciones ofrecidas por su compañía de cable, puede ser requerido suscribirse a esos servicios.

Nota: Comuniquese con su compañía de cable para la disponibilidad del módulo CableCARD. Este módulo le permite sintonizar canales digitales y de alta definición (donde esten disponibles) a través de su antena del cable. También podrá ser posible ordenar programas de pago por evento.

#### Lock (Bloqueo)

Este televisor de proyección HDTV contiene tecnología V-CHIP para bloquear peliculas y programs de televisión de acuerdo a su clasificación. Existen dos (2) Clasificaciones de Contenido: MPAA (Motion Picture Association of America) y Guía de Clasificaciones para TV de los EEUU. Estas clasificaciones son usadas como guías para bloquear los programas. El modo default para el bloqueo es Unlocked (desbloqueado). En este modo, usted puede ver varias categorias del menú Lock. Después de crear una contraseña, esta le será requerida antes de hacer cualquier cambio en el menú Lock.

#### Creando una contraseña

Una contraseña es creada usando el menú New Password.



#### **Procedimiento**

- Presione el botón MENU para desplegar el menú principal.
- Use los botones de navegación para seleccionar el icono de LOCK.
- Presione **OK** para mostrar la pantalla Create Password.
- Use el teclado numérico para introducir su código de cuatro digitos. (Use un código facil de recorder, y escribalo en un lugar seguro.)
- Presione **OK** para salvar el código. Ahora el televisor esta bloqueado.

#### Lock Set (Bloquear el televisor)

- Mode Para prevenir juegos de video y videocasetes de ser vistos. Las opciones posibles son:
  - Off Para apagar la función de bloqueo.
  - All (Todos) All channels are locked regardless of the rating level.
  - Game Lock Para bloquear las canales 3, 4 y las entradas de video.
  - Channel Lock Bloquea canales análogos y digitales específicos. La contraseña es requerida para ver cualquiera de los canales bloqueados.



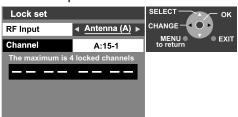
#### **Procedimiento**

- Estando en el menú de Lock, seleccione Lock Set y presione OK para mostrar el sub-menú.
- Presione ■ VOL o VOL ■ para seleccionar la opción deseada y presione OK.
- Presione MENU para regresar a la pantalla anterior.

#### Channel Lock (Bloqueo de canales)

Esta opción le permite seleccionar la señal de entrada por RF (Antenna (A) o Antenna (B) y bloquear hasta cuatro (4) canales por cada una. La contraseña es requerida para ver estos canales.

- ☐ RF Input Seleccione Antenna (A) o Antenna (B).
- ☐ Channel Seleccione hasta cuatro (4) canales para que sean bloqueados. Estos canales serán bloqueados independientemente de su clasificación.



#### **Procedimiento**

- En Lock Set, seleccione Channel Lock y presione OK.
- Presione MENU para regresar al menú previo.
- Seleccione Channel Lock y presione **OK** para mostrar el sub-menú Channel Lock.
- Presione OK y seleccione Antenna (A) or Antenna (B) usando ◀ VOL o VOL ▶.
- Presione CH ▼ y luego OK.
- Seleccione los canales que desea bloquear usando los botones de navegación y presione **OK**. Un máximo de cuatro (4) canales pueden ser bloqueados por entrada. Estos canales serán bloqueados independientemente de su clasificación.

**Nota:** Para quitar el canal de la lista, seleccione el mismo canal y presione **OK**.

#### **Block Program (Bloquear programa)**

Esta funciónle permite bloquear peliculas y programas de televisión basado en el sistema de clasificación de la MPAA y de TV de los EEUU.

MPAA - La MPAA usa las clasificaciones estándar usadas en las peliculas para prevenir que estas se vean.



#### **Procedimiento**

- En el menú Lock, seleccione Block Program y presione OK para entrar al sub-menú.
- Presione OK para entrar al campo y seleccione Off o On usando ◀ VOL o VOL ▶. Presione OK para guardar su elección.
- Presione los botones CH ▼▲ para seleccionar el nivel de clasificación deseado.
- Presione OK para cambiar el limite a "Viewable" o "Blocked".

**Nota:** La clasificación NR es independiente de las demás clasificaciones. Al colocar un bloqueo a una clasificación especifica, bloqueará esta clasificación y todas las de menor restricción que ella.

Para las conocer la descripción de las clasificaciones de la MPAA, favor de ver la siguiente tabla.

Tabla de Clasificación de MPAA

| NR    | PROGRAMA NO CLASIFICADO   |
|-------|---|
| G     | AUDIENCIA GENERAL. Se admiten todas las edades.   |
| PG    | GUIA DE LOS PADRES SUGERIDA. Con material no aconsejable para niños.                                    |
| PG-13 | FUERTE SUPERVISION DE LOS PADRES. Con material que puede ser inapropiado para niños menores de 13 años. |
| R     | <b>RESTRINGIDO.</b> Menores de 17 años necesitan ir acompañados de uno de los padres ó un adulto.       |
| NC-17 | NO SE ADMITE A NADIE DE 17 AÑOS O MENOS.  |
| X     | SOLO ADULTOS.   |

#### U.S. TV Rating (Clasificación de TV de EEUU)

Esta guía tiene 7 niveles de clasificaciones basadas en edades que pueden ser elegidas. Estos 7 niveles estan divididos en 2 grupos según la edad: clasificaciones basadas en juventud (Youth) y clasificaciones basadas en orientación (Guidance). Algunas de estas clasificaciones por edad tambien tienen clasificaciones por contenido, denominadas como D (Diálogo), L (Languaje), S (Sexo) y V (Violencia). En la siguiente tabla se muestra la selección de clasificaciones basadas en edad.

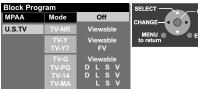
Tabla de Clasificacion de Programas de EEUU

| Grupo<br>basado en<br>edad | Clasificación<br>basada en<br>edad | Posibles selecciones de contenido         |
|----------------------------|------------------------------------|---|
| NR (Sin                    | TV-NR                              | Viewable (Visible)                        |
| clasificación)             |                                    | Blocked (Bloqueado)                       |
|                            | TV - Y                             | Viewable (Visible)                        |
|                            |                                    | Blocked (Bloqueado)                       |
| Youth                      |                                    | • FV (Violencia                           |
| Touti                      | TV - Y7                            | Fantasiosa)                               |
|                            | IV - Y7                            | Viewable (Visible)                        |
|                            |                                    | Blocked (Bloqueado)                       |
|                            | T) / C                             | Viewable (Visible)                        |
|                            | TV - G                             | Blocked (Bloqueado)                       |
|                            |                                    | • D,L,S,V (Todas                          |
|                            | TV - PG                            | seleccionadas)                            |
|                            | 1V - PG                            | Cualquier combinación                     |
|                            |                                    | de D, L, S, V                             |
| TV - 14  TV - MA           | • D, L S, V (Todas                 |   |
|                            | TV - 14                            | seleccionadas)                            |
|                            |                                    | <ul> <li>Cualquier combinación</li> </ul> |
|                            |                                    | de D, L, S, V                             |
|                            |                                    | • L, S, V (Todas                          |
|                            | TV - MA                            | seleccionadas)                            |
|                            |                                    | <ul> <li>Cualquier combinación</li> </ul> |
|                            | de L, S, V                         |   |

#### **Procedimiento**

En el menú de Block Program, seleccione U.S. TV y presione **OK** para accesar el campo.

- Presione **OK** para selccionar Off o On y presione **OK**.
- Seleccione la clasificación deseada usando CH ▼ o
- Presione OK para elegir "Viewable" (VERDE) o "Blocked" (ROJO).





#### Notas:

- Las clasificaciones como TV-PG, TV-14 y TV-MA tambien tienen clasificaciones por contenido. Estas clasificaciones pueden ser bloqueadas individualmente. Seleccione la clasificación, presione **VOL** para elegir el nivel de contenido y presione **OK** para bloquear.
- La clasificación TV-NR es independiente de las otras clasificaciones.
- Si TV-Y esta bloqueada, tanto TV-Y como TV-Y7 serán bloqueadas. Sin embargo, si selecciona TV-Y7, la clasificación FV puede ser bloqueada o desbloqueada.

#### Tabla De Programas De EEUU

| ·     |   |  |  |
|-------|---|--|--|
| NR    | No clasificado. VEA CUIDADO DEL CLIENTE en la página anterior.  |  |  |
| TV-Y  | <b>Todos los niños.</b> Los temas y elementos en este programa están especialmente diseñados para un público infantil, incluyendo niños de 2-6 años.                |  |  |
| TV-Y7 | <b>Dirigido a niños mayores.</b> Los temas y elementos en este programa pueden incluir ligera violencia física o cómica, o puede asustar a niños menores de 7 años. |  |  |
| TV-G  | Audiencia General. Contiene poca o nada de violencia, nada de lenguaje fuerte, y poco o nada de diálogo o situaciones con contenido sexual.                         |  |  |
| TV-PG | Guía de los padres sugerida. El programa puede contener lenguaje obsceno infrecuente, violencia limitada, diálogos o situaciones sexualmente sugestivas.            |  |  |
| TV-14 | Advertencia a los padres. Este programa puede contener temas sofisticados, contenido sexual, lenguaje inapropiado, y violencia más intensa.                         |  |  |
| TV-MA | Sólo audiencia Madura. Este programa puede contener temas para adultos, lenguaje profano, violencia gráfica y contenido sexual explícito.                           |  |  |
| FV    | FANTASIA/ CARICATURAS CON VIOLENCIA   |  |  |
| V     | VIOLENCIA   |  |  |
| S     | SEXO  |  |  |
| L     | LENGUAJE OFENSIVO   |  |  |
| D     | DIALOGO CON CONTENIDO SEXUAL  |  |  |

#### How Long? (¿Cuanto tiempo?)

Esta función le permite bloquear las entradas de señal por un periodo específico de tiempo. Los tiempos disponibles son: 12 horas, 24 horas, 48 horas o Siempre (Always).



**Nota:** Si "Always" ha sido seleccionado, y olvida su código secreto, la TV debe ser atendida por un técnico calificado para borrar el ajuste be Bloqueo.

#### Password (Código secreto)

En esta pantalla puede cambiar su código secreto. Ingrese un código nuevo de cuatro digitos usando el teclado numérico y este se convertirá en su nuevo código secreto.

#### Mensajes de Bloqueo

Varios mensajes de bloqueo son desplegados en pantalla dependiendo del la opción seleccionada en el menú LOCK.

#### Cuando Game Lock es seleccionado

El siguiente mensaje es desplegado cuando se intenta seleccionar entrados de video.

Video Inputs Locked.

#### **Cuando Channel Lock es seleccionado**

El siguiente mensaje es desplegado cuando se intenta sintonizar algún canal bloqueado en el menú Channel Lock.

Channel Locked.

Press OK to enter password.

#### Cuando el nivel de clasificación se exede

Si el Block Program está activado y el programa excede el limite de clasificación ajustado por el usuario, aparecerá el mensaje de bloqueo. Su código secreto le será solicitado para ver el canal bloqueado.

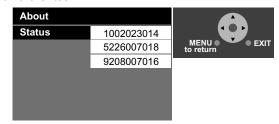
Rating Limit Exceeded.

Press OK to enter password.

**Nota:** Al ingresar el código, invalidará la condición de bloqueo. Sin embargo, las clasificaciones elegidas se mantendrán.

#### **About (Pantalla Sobre)**

La pantalla sobre muestra información variada sobre el televisor. Por favor tenga esta información a la maño al llamar al centro de atención a clientes.



# Glosario y Acrónimos

## **ATSC (Advanced Television System Committee)**

Cuerpo regulatorio que desarrolló los formatos terrestres para televisión digital.

### **CableCARD™**

Una tarjeta tipo PCMCIA que es suministrada por el operador de cable.

## DCF (Design Rule for Camera File System)

Estándar unificado establecido por la Asociación de Industrias Electrónicas y de Tecnología de Información de Japón (JEITA).

### **FAT (File Allocation Table)**

FAT 12 o FAT 16: Sistemas de archivo usados para formatear las tarjetas de memoria.

### **HDMI (High Definition Multimedia Interface)**

Interfase que soporta todos los formatos digitales no comprimidos asi como todos los formatos de audio multi-canal en un solo cable.

### JPEG (Joint Photographic Experts Group)

Sistema usado para comprimir/decodificar imagenes fijas a color.

### **MPAA (Motion Picture Association of America)**

Gremio que gobierna la asignación de clasificaciones de las peliculas.

### NTSC (National Television Systems Committee)

Cuerpo de estandarización que desarrolló los formatos terrestres de televisión análoga.

### **Password**

Un código de cuatro (4) digitos que el usuario debe proveer para poder llevar a cabo una función.

# Cuadro de Localización de Fallas

Antes de solicitar servicio, establezca los síntomas y lleve a cabo las siguientes posibles soluciones

| SONIDO                  | <b>I</b> MAGEN  | Soluciones  |
|-------------------------|---|---|
| Sonido Ruidoso          | Imagen Moteada  | Ajuste la Ubicación y/o Conexión de la Antena   |
| Sonido Normal           | Imagen Múltiple /<br>Corrimiento de color en imágen   | Ajuste la Ubicación y la Conexión de la Antena<br>Revise el Cable de Entrada de la Antena<br>Ajuste la convergencia de la imágen (ver págs. 28 y 29)  |
| Sonido Ruidoso          | Interferencia   | Aleje la TV de los Aparatos Electrodomésticos,<br>Luces, Vehículos y Equipo Médico  |
| Sin Sonido              | Imagen Normal   | Aumente el Volúmen Revise Mute (Mudo) Revise en el Menú de Audio: ALTAVOCES > SI (ver págs. 22 y 23) Cambie el Canal  |
| Sonido Ruidoso          | Sin Imagen/Con Motas  | Ajuste apropiadamente la modalidad de TV o del Cable<br>Revise los Cables de la Antena  |
| Sin Sonido              | ? Sin Imagen / Sin IDI  | Revise que el Cable de Corriente este Enchufado a una toma de Corriente Activa Ajuste los Controles de Brillo y Audio Cambie el Canal Revise las Conexiones del Cable Programe el Control Remoto otra vez Revise la Operación de la Segunda Fuente de Video Señal ATSC débil. Redireccione la antena. |
| Sonido<br>Distorsionado | Digitalización de la imágen<br>Congelamiento de la imágen   | Redireccione la antena.  Revise la fuerza de la señal (ver página 27). Si la señal es débil, agregue un amplificador de señal para incrementar su fuerza.   |
| Sonido Normal           | La imagen se recorre ligeramente al encender el receptor, cuando se cambía de canal or dentro de un periodo de 2 horas. | Esta es una condición normal. Esta función puede ser desactivada. Sin embargo, el desactivar esta función puede causar retención en la imagen por lo cual no es recommendado.   |
| Sonido Normal           | Sin Color   | Ajuste el Color<br>Cambie el Canal  |
| Sonido Erróneo          | Imagen Normal   | Revise en el menú de AUDIO que el Ajuste se encuentre en Estéreo o<br>Mono, no en SPA   |

| SONIDO   | <b>I</b> MAGEN          | Soluciones   |
|--|-------------------------|--|
| Sonido Normal  | Caja Negra en Pantalla  | Cambie CC (Subtítulos) de la Modalidad de Texto a NO   |
| 00111001110111101  | al HDMI esta concectada |  |
| Oddino la Sellai Fibilii esta concectada                                     |                         | Asegurese de no conectar la PC a la entrada HDMI.  |
| Sin Sonido   | Sin Imagen              | En algunas ocaciones, el televisor no mostrará imagen por la entrada HDMI cuando este conectado a aparátos con salida HDMI o DVI debido a mala comunicación entre el televisor y los aparátos. Si esto sucede, desconecte el aparáto HDMI/DVI y vuelvalo a conectar. |
| Sonido Erróneo   | Imagen Normal           | Si usa la entrada HDMI, cambie el audio del aparáto HDMI a PCM<br>Lineal.<br>Revise el ajuste de Audio para HDMI (ver pág. 22). Si hay problema con<br>el audio digital, cambie a audio análogo.   |
| Operación Intermitente del Control Remoto                                    |                         |  |
| Sonido Normal  | Imagen Normal           | Reemplace las Pilas del Control Remoto   |
| El panel de control frontal no funciona ó el control remoto no tiene efecto. |                         | Presione el botón POWER en el panel frontal y mantengalo presionado por más de 5 segundos para re-inicializar el televisor.  |
| Terrioto no tiene electo.  |                         | poi mas de o segundos para re-inicializar el televisor.  |
| Sonido Normal  | Imagen Normal           | Confirmar formato de la señal de entrada. Cuando recibe señal 1080i, el botón ASPECT no funciona (ver pág. 14).  |
| El botón ASPECT no tiene efecto.   |                         |  |

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Conexión del Decodificador de Televisión

remoto 16

PANASONIC CONSUMER ELECTRONICS COMPANY, DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA One Panasonic Way Secaucus, New Jersey 07094 PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC., Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

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TV CATEGORY ALL PARTS LABOR SERVICE
ALL Projection TV 1 (ONE) YEAR 1 (ONE) YEAR IN-HOME OR CARRY-IN

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**Limited Warranty continued on next page** 

## **Limited Warranty continued from previous page**

## **Limited Warranty Limits And Exclusions**

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer

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